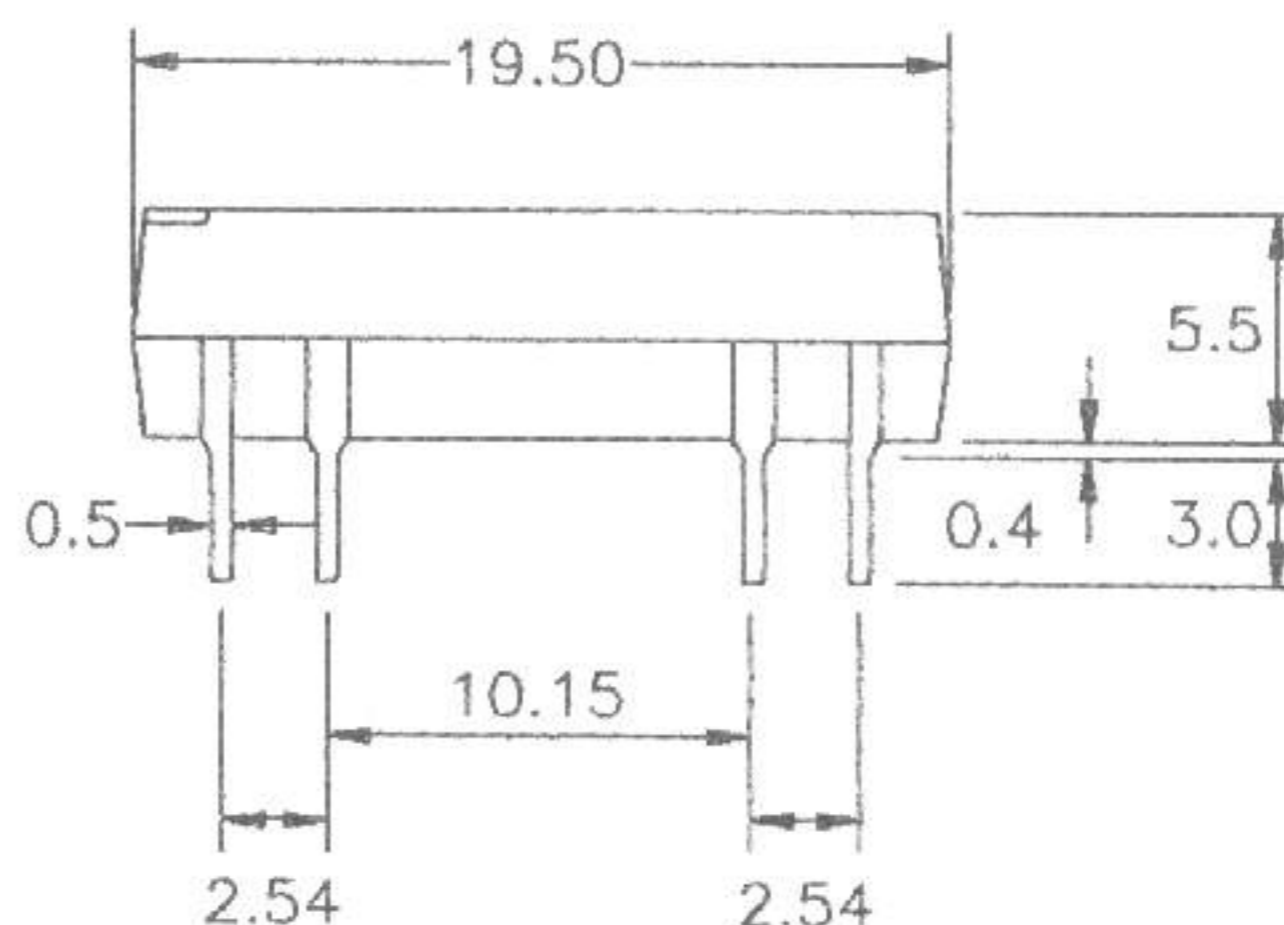
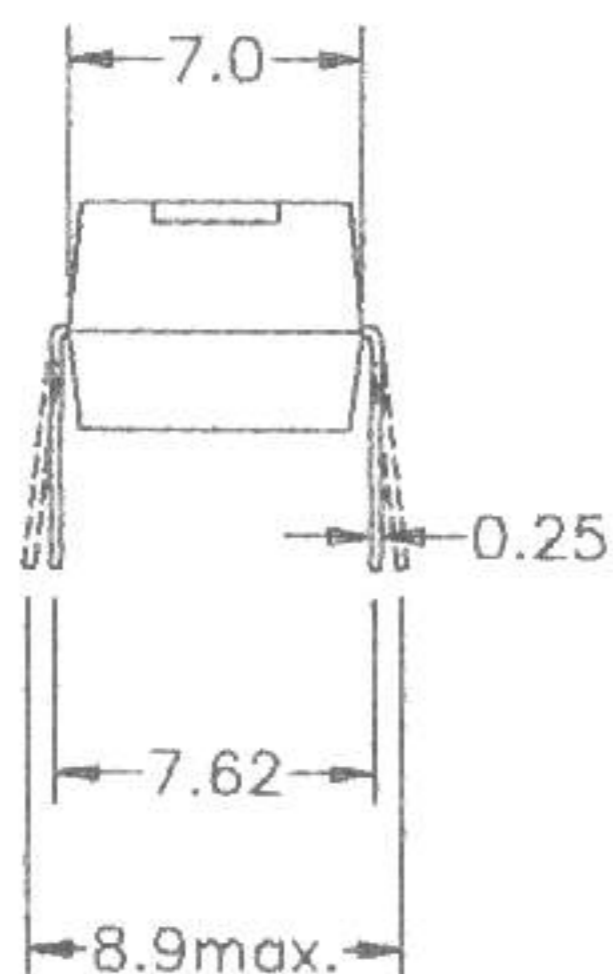
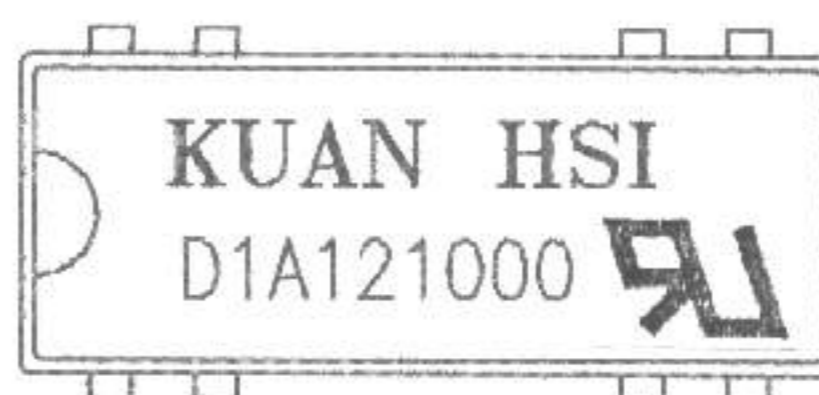


# PRODUCT SPECIFICATION

DATE: 11/05/1998

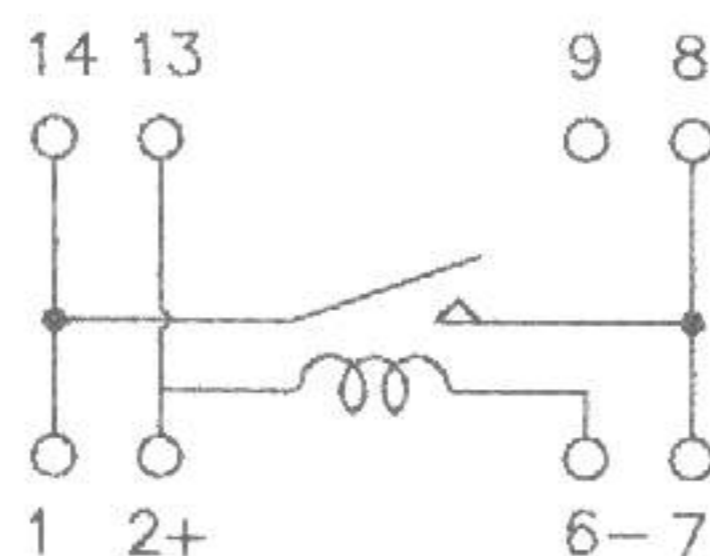
|                                         |                           |              |                  |
|-----------------------------------------|---------------------------|--------------|------------------|
| <b>COSMO</b><br>ELECTRONICS CORPORATION | Reed Relay :<br>D1A121000 | NO. 50R02002 | REV.<br><b>2</b> |
|                                         |                           | SHEET 1 OF 2 |                  |

1. OUTSIDE DIMENSION : UNIT ( mm )



TOLERANCE :  $\pm 0.1\text{mm}$

2. SCHEMATIC : TOP VIEW



|                                  |                                  |                                        |
|----------------------------------|----------------------------------|----------------------------------------|
| ISSUE <i>Alan Lai</i><br>5-11-98 | CHECK <i>Alan Lai</i><br>5-11-98 | APPROVED <i>[Signature]</i><br>82.5.78 |
|----------------------------------|----------------------------------|----------------------------------------|

# PRODUCT SPECIFICATION

DATE: 11/05/1998

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|------------------|---------------------|----------------------------|--------------------------|----------|--------------------------------|----------|------------------|---------|------------------|-----------|-------------------|---------|------------------------|----------------------|------------------|--------------|-----------------|--------------|------------------|--------------|--------------------------------------------------|----------------------------------|-----------|-------------|-----------------------|---------------|-----------------------|-------------|-------------------|--------------|----------------------------------------------|---------------|--------------------------|---------------|-------------------------------------|-----------------|----------------------|-------------|--------------------|--------------|-------------------------|-----------|-------------------------------|------------|-------------------------------|---------------|
| <b>COSMO</b><br>ELECTRONICS CORPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Reed Relay :<br>D1A121000        | NO. 50R02002<br>SHEET 2 OF 2          | REV.<br><b>2</b> |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| <p><u>3.0 COIL RATINGS: (AT 20°C)</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">3.1 Coil resistance</td> <td style="width: 30%; text-align: right;">1000 (<math>\Omega \pm 10\%</math>)</td> </tr> <tr> <td>3.2 Nominal coil voltage</td> <td style="text-align: right;">12 (VDC)</td> </tr> <tr> <td>3.3 Maximum Continuous voltage</td> <td style="text-align: right;">20 (VDC)</td> </tr> <tr> <td>3.4 Must operate</td> <td style="text-align: right;">9 (VDC)</td> </tr> <tr> <td>3.5 Must release</td> <td style="text-align: right;">1.2 (VDC)</td> </tr> <tr> <td>3.6 Rated current</td> <td style="text-align: right;">12 (mA)</td> </tr> </table> <p><u>4.0 ELECTRICAL CHARACTERISTICS :</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">4.1 Contact resistance</td> <td style="width: 30%; text-align: right;">100 (m<math>\Omega</math> max)</td> </tr> <tr> <td>4.2 Operate time</td> <td style="text-align: right;">0.5 (mS max)</td> </tr> <tr> <td>4.3 Bounce time</td> <td style="text-align: right;">0.5 (mS max)</td> </tr> <tr> <td>4.4 Release time</td> <td style="text-align: right;">0.2 (mS max)</td> </tr> <tr> <td>4.5 Insulation resistance (100 VDC open contact)</td> <td style="text-align: right;">10<sup>11</sup> (<math>\Omega</math> min)</td> </tr> <tr> <td>4.6 Power</td> <td style="text-align: right;">15 (VA max)</td> </tr> <tr> <td>4.7 Switching voltage</td> <td style="text-align: right;">200 (VDC max)</td> </tr> <tr> <td>4.8 Switching current</td> <td style="text-align: right;">1.0 (A max)</td> </tr> <tr> <td>4.9 Carry current</td> <td style="text-align: right;">1.25 (A max)</td> </tr> <tr> <td>4.10 Breakdown voltage (across open contact)</td> <td style="text-align: right;">250 (VDC min)</td> </tr> <tr> <td style="padding-left: 100px;">(between coil &amp; contact)</td> <td style="text-align: right;">500 (VDC min)</td> </tr> <tr> <td>4.11 Life expectancy (signal level)</td> <td style="text-align: right;">10<sup>8</sup></td> </tr> <tr> <td>4.12 Operating temp.</td> <td style="text-align: right;">-40 to 85°C</td> </tr> <tr> <td>4.13 Storage temp.</td> <td style="text-align: right;">-50 to 125°C</td> </tr> <tr> <td>4.14 Resonant frequency</td> <td style="text-align: right;">3.5 (KHZ)</td> </tr> <tr> <td>4.15 Vibration (10 - 2000 HZ)</td> <td style="text-align: right;">20 (g max)</td> </tr> <tr> <td>4.16 Minimum permissible load</td> <td style="text-align: right;">100 mVDC 10uA</td> </tr> </table> |                                  |                                       |                  | 3.1 Coil resistance | 1000 ( $\Omega \pm 10\%$ ) | 3.2 Nominal coil voltage | 12 (VDC) | 3.3 Maximum Continuous voltage | 20 (VDC) | 3.4 Must operate | 9 (VDC) | 3.5 Must release | 1.2 (VDC) | 3.6 Rated current | 12 (mA) | 4.1 Contact resistance | 100 (m $\Omega$ max) | 4.2 Operate time | 0.5 (mS max) | 4.3 Bounce time | 0.5 (mS max) | 4.4 Release time | 0.2 (mS max) | 4.5 Insulation resistance (100 VDC open contact) | 10 <sup>11</sup> ( $\Omega$ min) | 4.6 Power | 15 (VA max) | 4.7 Switching voltage | 200 (VDC max) | 4.8 Switching current | 1.0 (A max) | 4.9 Carry current | 1.25 (A max) | 4.10 Breakdown voltage (across open contact) | 250 (VDC min) | (between coil & contact) | 500 (VDC min) | 4.11 Life expectancy (signal level) | 10 <sup>8</sup> | 4.12 Operating temp. | -40 to 85°C | 4.13 Storage temp. | -50 to 125°C | 4.14 Resonant frequency | 3.5 (KHZ) | 4.15 Vibration (10 - 2000 HZ) | 20 (g max) | 4.16 Minimum permissible load | 100 mVDC 10uA |
| 3.1 Coil resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1000 ( $\Omega \pm 10\%$ )       |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 3.2 Nominal coil voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 (VDC)                         |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 3.3 Maximum Continuous voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20 (VDC)                         |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 3.4 Must operate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9 (VDC)                          |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 3.5 Must release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.2 (VDC)                        |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 3.6 Rated current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12 (mA)                          |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.1 Contact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100 (m $\Omega$ max)             |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.2 Operate time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.5 (mS max)                     |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.3 Bounce time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.5 (mS max)                     |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.4 Release time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.2 (mS max)                     |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.5 Insulation resistance (100 VDC open contact)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 <sup>11</sup> ( $\Omega$ min) |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.6 Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15 (VA max)                      |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.7 Switching voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 200 (VDC max)                    |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.8 Switching current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.0 (A max)                      |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.9 Carry current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.25 (A max)                     |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.10 Breakdown voltage (across open contact)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250 (VDC min)                    |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| (between coil & contact)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 500 (VDC min)                    |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.11 Life expectancy (signal level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 <sup>8</sup>                  |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.12 Operating temp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40 to 85°C                      |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.13 Storage temp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -50 to 125°C                     |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.14 Resonant frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.5 (KHZ)                        |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.15 Vibration (10 - 2000 HZ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20 (g max)                       |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| 4.16 Minimum permissible load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100 mVDC 10uA                    |                                       |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |
| ISSUE <i>Alan Lai</i><br>5-11-98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CHECK <i>Alan Lai</i><br>5-11-98 | APPROVED <i>[Signature]</i><br>8/5/98 |                  |                     |                            |                          |          |                                |          |                  |         |                  |           |                   |         |                        |                      |                  |              |                 |              |                  |              |                                                  |                                  |           |             |                       |               |                       |             |                   |              |                                              |               |                          |               |                                     |                 |                      |             |                    |              |                         |           |                               |            |                               |               |