

Preliminary

# "High Frequency Ceramic Solutions"

## 892 MHz Diplexer

Detail Specification: 05/13/10

P/N 0892DP15A1940

Page 1 of 2

### General Specifications

|             |               |
|-------------|---------------|
| Part Number | 0892DP15A1940 |
|-------------|---------------|

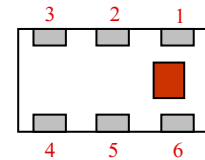
| Passband (MHz) | Insertion Loss (dB) | Attenuation I             | Isolation (dB) | Return Loss (dB) |
|----------------|---------------------|---------------------------|----------------|------------------|
| 824 ~ 960      | 0.9 max             | 18 min. @ 1648 ~ 1830 MHz | 16 min.        | 15 min.          |
|                |                     | 22 min. @ 2472 ~ 2745 MHz |                |                  |
|                |                     | 15 min. @ 3300 ~ 4000 MHz |                |                  |
|                |                     | 15 min. @ 5000 ~ 8500 MHz |                |                  |
| 1710 ~ 2170    | 1.0 max             | 19 min. @ 3420 ~ 3820 MHz | 20 min.        | 13 min.          |
|                |                     | 20 min. @ 5130 ~ 5730 MHz |                |                  |
|                |                     | 15 min. @ 6000 ~ 8000 MHz |                |                  |

|                |                                  |
|----------------|----------------------------------|
| Input Power    | 2 Watts max.                     |
| Impedance      | 50 $\Omega$                      |
| Operating Temp | -40 to +85°C                     |
| Storage Temp   | +5 to +35°C, Humidity 45~75%RH * |
| Reel Quantity  | 4000                             |

\* 12 months in vacuum sealed bag and 1 week after opened

### Terminal Configuration

| No. | Function               |
|-----|------------------------|
| 1   | Higher Freq. Port (P3) |
| 2   | GND                    |
| 3   | Lower Freq. Port (P2)  |
| 4   | GND                    |
| 5   | Common Port (P1)       |
| 6   | GND                    |



### Mechanical Dimensions

|   | In                       | mm                  |
|---|--------------------------|---------------------|
| L | 0.079 $\pm$ 0.004        | 2.00 $\pm$ 0.10     |
| W | 0.049 $\pm$ 0.004        | 1.25 $\pm$ 0.10     |
| T | 0.018 $\pm$ 0.020        | 0.45 $\pm$ 0.50     |
| a | 0.012 $\pm$ 0.004        | 0.30 $\pm$ 0.10     |
| b | 0.008 $\pm$ 0.004        | 0.20 $\pm$ 0.10     |
| c | 0.012 $\pm$ 0.004/-0.008 | 0.30 $\pm$ 0.1/-0.2 |
| g | 0.014 $\pm$ 0.004        | 0.35 $\pm$ 0.10     |
| p | 0.026 $\pm$ 0.002        | 0.65 $\pm$ 0.05     |

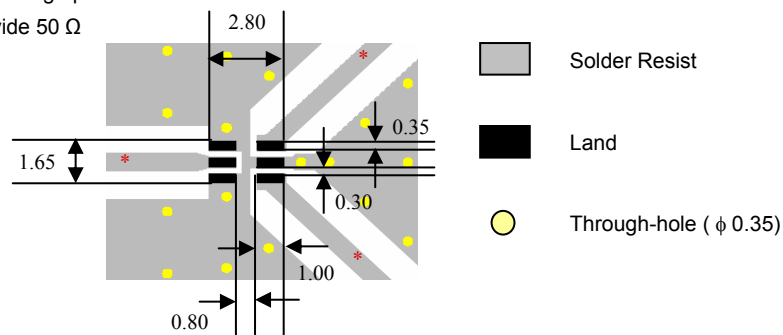
Unit : mm

### Mounting Considerations

Mount these devices with brown mark facing up.

\*Line width should be designed to provide 50  $\Omega$  impedance matching characteristics.

Units: mm



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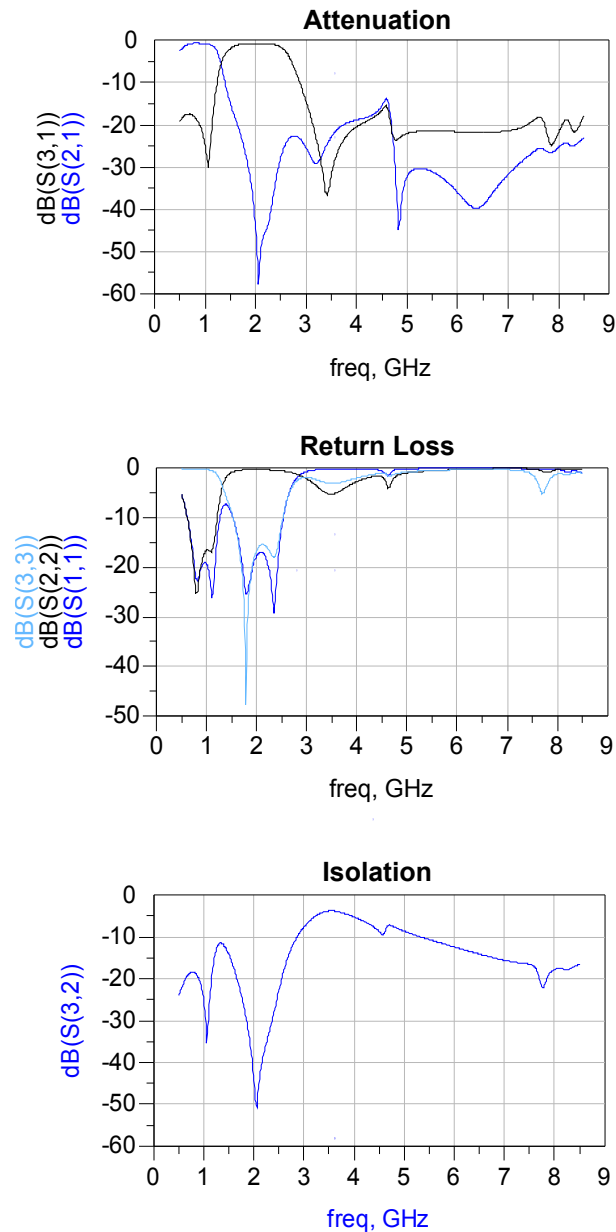
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Page 2 of 2

#### Typical Electrical Performance (T=25°C)



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