

# Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: Inquiry@DynamicEngineers.com

#### **Features and Benefits**

Center frequency: 1450MHz I.L: 4dB Max. Operating temperature: 0°C to +50°C Size: 3x3x1.4mm Package type: Surface Mount



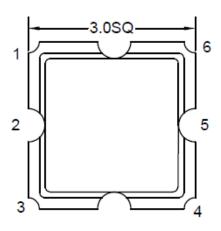
### **Typical Applications**

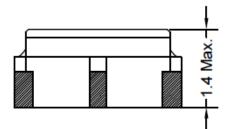
IOT Cellular Telecom 4G/LTE Wireless Communication WLAN **Base Station** Radar

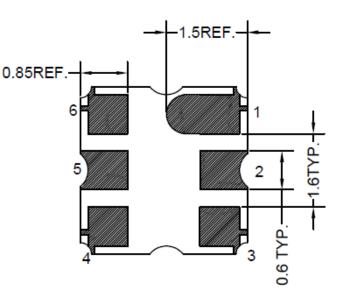
#### **Mechanical Drawing & Pin Connections**



MD240080-1







|                                 | PIN    | Function |  |  |  |  |  |
|---------------------------------|--------|----------|--|--|--|--|--|
|                                 | #2     | INPUT    |  |  |  |  |  |
|                                 | #5     | OUTPUT   |  |  |  |  |  |
|                                 | Others | GND      |  |  |  |  |  |
| Unit in mm                      |        |          |  |  |  |  |  |
| 1mm = 0.0394 inches             |        |          |  |  |  |  |  |
| Not Specified Tolerance: ±0.2mm |        |          |  |  |  |  |  |

Dynamic Engineers, Inc.

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



# Dynamic Engineers Inc.

Website: <u>www.DynamicEngineers.com</u> Email: <u>Inquiry@DynamicEngineers.com</u>

## **Specifications**

| Parameter                               | Min. | Typical | Max. | Units |  |  |
|---|------|---------|------|-------|--|--|
| Center Frequency Fc                     |      | 1450    |      | MHz   |  |  |
| Insertion Loss (1447.5~1452.5 MHz) IL   |      | 2.5     | 4    | dB    |  |  |
| Amplitude Ripple (1447.5~1452.5 MHz)    |      | 0.1     | 1    | dB    |  |  |
| Bandwidth @ -1 dB                       | 5    | 37      |      | MHz   |  |  |
| VSWR (1447.5~1452.5 MHz)                |      | 1.3     | 2.1  |       |  |  |
| Attenuation (Reference level from 0 dB) |      |         |      |       |  |  |
| DC~100 MHz                              | 60   | 70      |      | dB    |  |  |
| 100~1388 MHz                            | 40   | 58      |      | dB    |  |  |
| 1388~1394 MHz                           | 30   | 58      |      | dB    |  |  |
| 1506~1512 MHz                           | 30   | 40      |      | dB    |  |  |
| 1512~2500 MHz                           | 40   | 55      |      | dB    |  |  |
| Input Power Level                       |      | 10      |      | dBm   |  |  |
| DC Voltage                              |      | 3       |      | V     |  |  |
| Operating Temperature Range             | 0    |         | +50  | °C    |  |  |
| Storage Temperature Range               | -40  |         | +85  | °C    |  |  |