

## Dynamic Engineers Inc.

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

#### **Features and Benefits**

Center frequency: 869MHz I.L: 3.5dB Max. Operating temperature: -40°C to +85°C Size: 3x3x1.4mm Package type: Surface Mount SF3030AO-869MHz-E 869MHz Small Size SMD SAW Filter



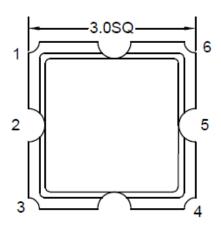
#### **Typical Applications**

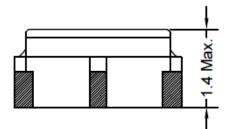
IOT Cellular Telecom 4G/LTE Wireless Communication WLAN Base Station Radar

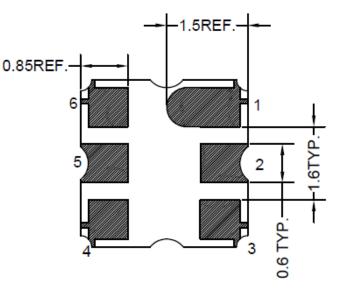
#### **Mechanical Drawing & Pin Connections**



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 graphs 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  |         | 869     |      | MHz   |  |  |
| Insertion Loss (868~870 MHz)            | IL  |         | 2.6     | 3.5  | dB    |  |  |
| Amplitude Ripple (868~870 MHz)          |     |         | 0.6     | 1.2  | dB    |  |  |
| Attenuation (Reference level from 0 dB) |     |         |         |      |       |  |  |
| 10 ~ 845 MHz                            |     | 35      | 40      |      | dB    |  |  |
| 845 ~ 851 MHz                           |     | 32      | 36      |      | dB    |  |  |
| 851 ~ 856.8 MHz                         |     | 20      | 24      |      | dB    |  |  |
| 883 ~ 892 MHz                           |     | 20      | 35      |      | dB    |  |  |
| 892 ~ 1000 MHz                          |     | 42      | 47      |      | dB    |  |  |
| Input Power Level                       |     |         | 13      |      | dBm   |  |  |
| DC Voltage                              |     |         | 0       |      | V     |  |  |
| Operating Temperature Range             |     | -40     |         | +85  | °C    |  |  |
| Storage Temperature Range               | -40 |         | +85     | °C   |       |  |  |
| Source impedance (single ended)         |     | 50      |         | Ω    |       |  |  |
| Load impedance (single ended)           |     | 50      |         | Ω    |       |  |  |
| Moisture Sensitivity Level              |     | Level 1 |         |      |       |  |  |