



## Features and Benefits

Center frequency: 845MHz

I.L: 3dB Max.

Operating temperature: -40°C to +125°C

Size: 3x3x1.4mm

Package type: Surface Mount



## Typical Applications

IOT

Cellular

Telecom

4G/LTE

Wireless Communication

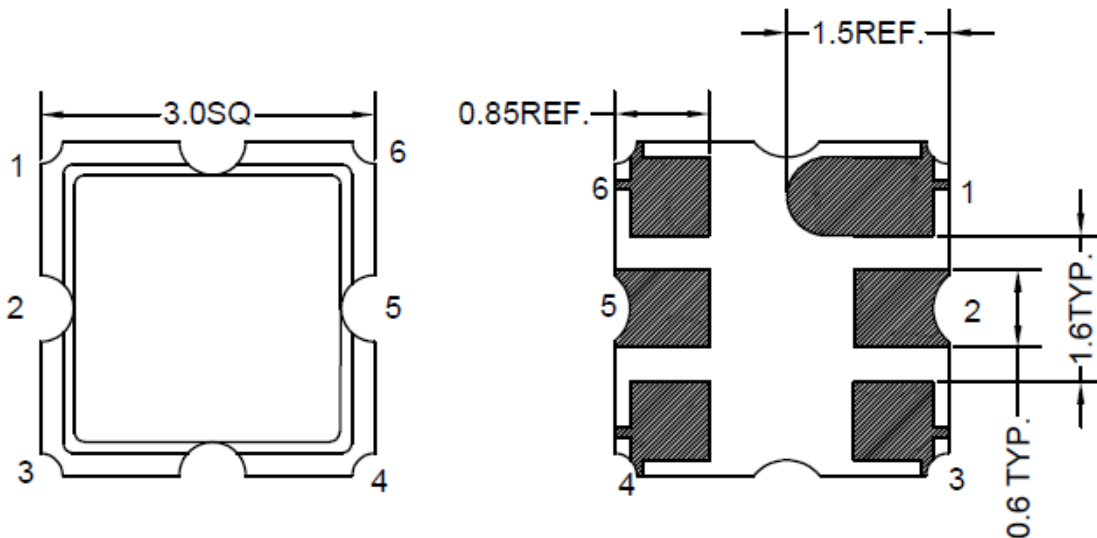
WLAN

Base Station

Radar

## Mechanical Drawing & Pin Connections

Drawing No: MD240080-1



PIN	Function
#2	INPUT
#5	OUTPUT
Others	GND

Unit in mm

1mm = 0.0394 inches

Not Specified Tolerance:  $\pm 0.2\text{mm}$



## Specifications

Parameter		Min.	Typical	Max.	Units
Center Frequency	Fc		845		MHz
Insertion Loss (839~851 MHz)	IL		1.4	3	dB
Amplitude Ripple (839~851 MHz)			0.3	1.8	dB
VSWR (839~851 MHz)			1.5	2.2	ns
Group Delay Variation (839~851 MHz)			15	40	ns
Attenuation (Reference level from 0 dB)					
10~804	MHz	35	37		dB
869~894	MHz	30	39		dB
894~920	MHz	35	42		dB
920~1210	MHz	35	42		dB
1210~1500	MHz	35	45		dB
1500~2000	MHz	30	33		dB
2000~2600	MHz	20	25		dB
2000~3000	MHz	20	22		dB
Temperature Coefficient of Frequency			-36		ppm/°C
Terminating Source Impedance	Z <sub>S</sub>		50		ohm
Terminating Load Impedance	Z <sub>L</sub>		50		ohm
Input Power Level			16		dBm
DC Voltage			6		V
Operating Temperature Range		-40		+125	°C
Storage Temperature Range		-40		+125	°C
Moisture Sensitivity Level		Level 1(MSL1)			

**Notes:**

- (1). In production, devices will be tested at room temperature to a guard banded specification to ensure electrical compliance over temperature.
- (2). Typical values are based on average measurements at room temperature.