

## Dynamic Engineers Inc.

Website: <a href="www.DynamicEngineers.com">www.DynamicEngineers.com</a></a> Email: <a href="mailto:lnquiry@DynamicEngineers.com">lnquiry@DynamicEngineers.com</a>

#### SF3030AO-2442MHz-B 2442MHz Small Size SMD SAW Filter

#### **Features and Benefits**

Center frequency: 2442MHz

I.L: 3.0dB Max.

Operating temperature: -20°C to +70°C

Size: 3x3x1.4mm

Package type: Surface Mount



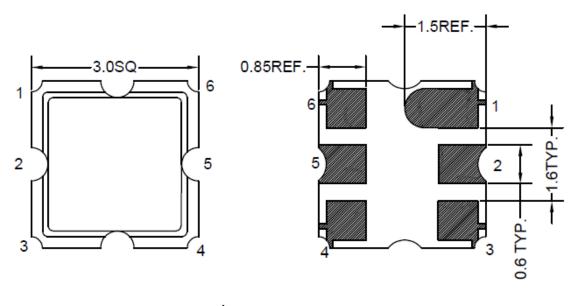
#### **Typical Applications**

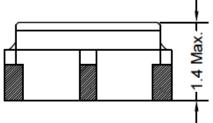
IOT
Cellular
Telecom
4G/LTE
Wireless Communication
WLAN
Base Station
Radar

#### **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: ±0.2mm



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#### **Specifications**

Parameter		Min.	Typical	Max.	Units
Center Frequency	Fr	2437	2442	2447	MHz
Insertion Loss (2437~2447 MHz)	IL		1.9	3.0	dB
Pass Bandwidth (relative to IL)	BW3	55	78		MHz
Amplitude Ripple (Fr +/- 12.5MHz)			0.6	2.0	dB
Group Delay Ripple (Fr +/- 12.5MHz)			5	20	ns
Group Delay (Fr +/- 12.5MHz)			14	50	ns
VSWR (Fr +/- 12.5MHz)			1.6	2.5	
Attenuation (Reference level from 0 dB)					
D.C. ~ 2300 MHz		37	41		dB
2300 ~ 2367 MHz		20	31		dB
2517 ~ 2650 MHz		40	44		dB
2650 ~ 4000 MHz		25	31		dB
Human Body Model	HBM		200		V
Machine Model	MM		200		V
Temperature Coefficient of Frequency			-36		ppm/°C
Input Power Level			10		dBm
DC Voltage			3		V
Operating Temperature Range		-20	·	+70	°C
Storage Temperature Range		-40		+85	°C
Source impedance (single ended)	Zs		50		Ω
Load impedance (single ended)	$Z_L$	·	50	-	Ω