

# 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-947.5MHz-C

947.5MHz Small Size SMD SAW Filter

#### **Features and Benefits**

Center frequency: 947.5MHz

I.L: 3.5dB Max.

Operating temperature: -30°C to +85°C

Size: 3x3x1.4mm

Package type: Surface Mount



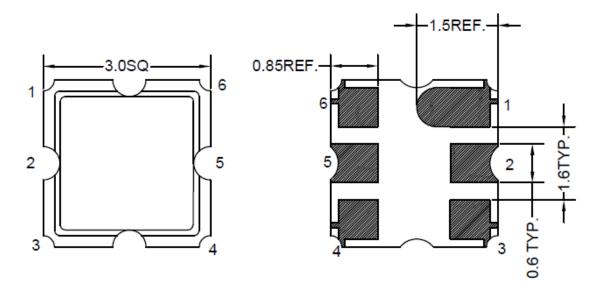
#### **Typical Applications**

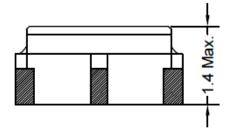
IOT Cellular Telecom 4G/LTE Wireless Communication WLAN Base Station Radar

### **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	Fc		947.5		MHz	
Insertion Loss (935~960 MHz)	IL		2.7	3.5	dB	
Amplitude Ripple (935~960 MHz)			0.6	1.4	dB	
VSWR (935~960 MHz)			1.6	2.3		
Attenuation (Reference level from 0 dB)						
D.C. ~ 871 MHz		50	62.1		dB	
890 ~ 915 MHz		30	43.9		dB	
980 ~ 1025 MHz		25	28.6		dB	
1025 ~ 2000 MHz		45	54.1		dB	
2000 ~ 3000 MHz		20	26.8		dB	
Input Power Level			20		dBm	
DC Voltage			5		V	
Operating Temperature Range		-30		+85	°C	
Storage Temperature Range		-40		+85	°C	
Source impedance (single ended)			50		Ω	
Load impedance (single ended)			50	·	Ω	

Note: No matching network required for operation at 50  $\boldsymbol{\Omega}$