

## Dynamic Engineers Inc.

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

#### **Features and Benefits**

Center frequency: 942.5MHz I.L: 4.5dB Max. Operating temperature: -40°C to +105°C Size: 3x3x1.4mm Package type: Surface Mount SF3030AO-942.5MHz-C 942.5MHz Small Size SMD SAW Filter



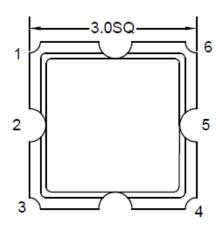
#### **Typical Applications**

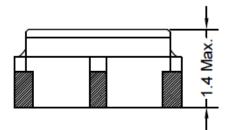
IOT Cellular Telecom 4G/LTE Wireless Communication WLAN Base Station Radar

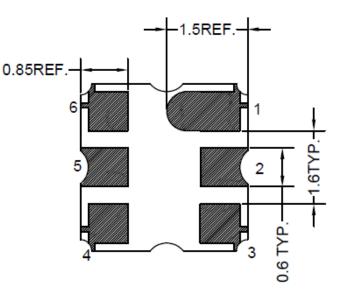
#### **Mechanical Drawing & Pin Connections**



MD240080-1







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

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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.



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### **Specifications**

Parameter	Min.	Typical	Max.	Units		
Center Frequency Fc		942.5		MHz		
Insertion Loss (925~960 MHz) (0°C to +50°C) IL		2.8	3.5	dB		
Insertion Loss (925~960 MHz) (-40°C to +105°C) IL		2.8	4.5	dB		
Return Loss (925~960 MHz) (0°C to +50°C)	12	20		dB		
Pass Band (925~960 MHz)	35	55		MHz		
Attenuation (Reference level from 0 dB)						
0 ~ 650 MHz	45	49		dB		
650 ~ 830 MHz	35	40		dB		
1100 ~ 1452 MHz	38	42		dB		
1452 ~ 1600 MHz	32	50		dB		
Temperature Coefficient of Frequency		-75		ppm/°C		
Input Power Level		20*		dBm		
DC Voltage		5		V		
Operating Temperature Range	-40		+105	°C		
Storage Temperature Range	-40		+105	°C		
Moisture Sensitivity Level	Level 1 (MSL1)					

Note \*: CW for 70000hrs at 25°C