

# 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-3700MHz-A

#### 3700MHz Small Size SMD SAW Filter

#### **Features and Benefits**

Center frequency: 3700MHz

I.L: 5.5dB Max.

Operating temperature: -40°C to +105°C

Size: 3x3x1.4mm

Package type: Surface Mount



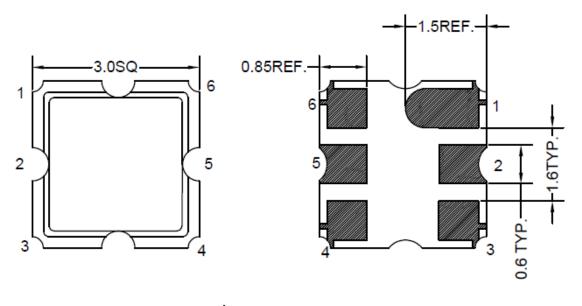
#### **Typical Applications**

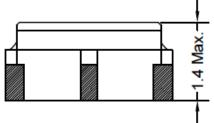
IOT Cellular Telecom 4G/LTE Wireless Communication WLAN Base Station Radar

#### **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 Parame	Min.	Typical	Max.	Units		
Center Frequency Fc		3700		MHz		
Insertion Loss (3600~3800 MHz) IL		4.7	5.5	dB		
Amplitude Ripple (3600~3800 MHz)		0.7	3.5	dB		
VSWR (3600~3800 MHz)		1.8	3			
Group Delay Ripple (3600~3800 MHz)		1	15	ns		
Group Delay at Fc		2	30	ns		
Attenuation (Reference level from 0 dB)						
10~2550 MHz	20	27		dB		
2550~2690 MHz	25	27		dB		
2690~3000 MHz	20	27		dB		
3000~3400 MHz	10	16		dB		
4000~4050 MHz	10	42		dB		
4050~4400 MHz	20	40		dB		
4400~5200 MHz	5	31		dB		
5200~6000 MHz	1	29		dB		
Temperature Coefficient of Frequency		-80		ppm/°C		
Input Power Level (3600~3800 MHz , Continuous wave for 1000h @105°C)		21		dBm		
Input Power Level (3600~3800 MHz , Continuous wave for 1000h @95°C)		22		dBm		
Input Power Level (3600~3800 MHz , Continuous wave for 2h @105°C)		24		dBm		
Input Power Level (3600~3800 MHz , Continuous wave for 2h @95°C)		25		dBm		
DC Voltage		0		V		
Operating Temperature Range	-40		+105	°C		
Storage Temperature Range	-40		+105	°C		
Moisture Sensitivity Level	Level 1(MSL1)					