Dynamic Engineers Inc.
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SF3030AO-868.6MHz-A
868.6MHz Small Size SMD SAW Filter

Features and Benefits

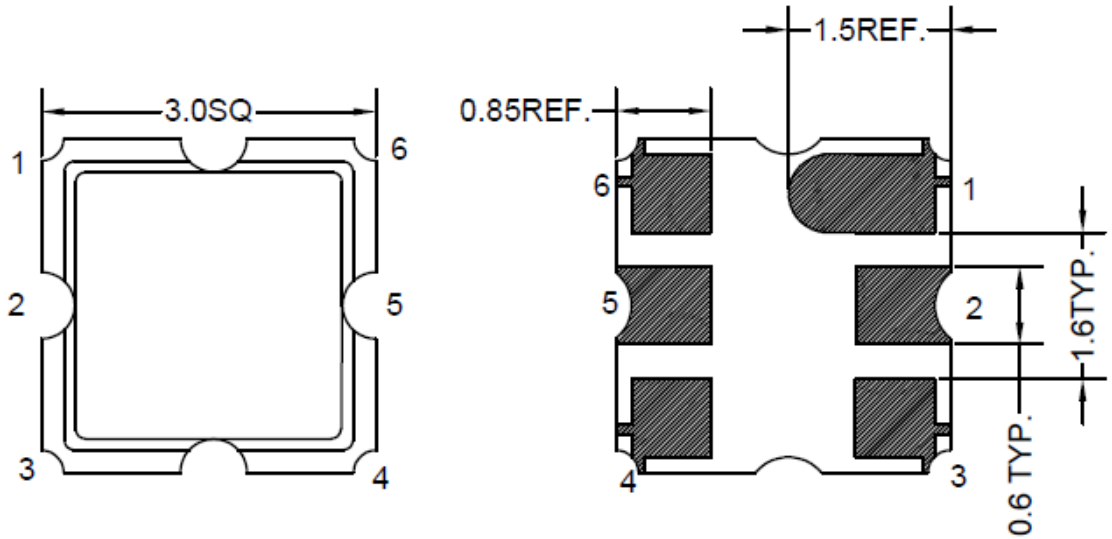
Center frequency: 868.6MHz
I.L: 3.5dB Max.
Operating temperature: -20°C to +70°C
Size: 3x3x1.4mm
Package type: Surface Mount

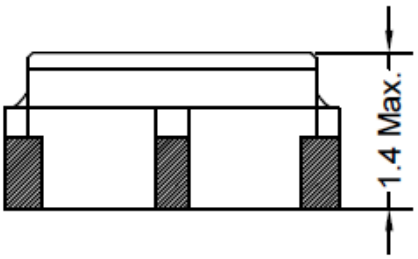
Typical Applications

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

Specifications

Parameter		Min.	Typical	Max.	Units
Center Frequency	Fc		868.6		MHz
3dB Bandwidth			1.65		MHz
Insertion Loss (Incl. loss of matching elements)*1)	IL		2.8	3.5	dB
Passband (Relative to IL) *1) (868~869.2 MHz)			1.8	3.0	dB
Attenuation (Relative to IL) *1)					
10 ~ 820	MHz	40	45		dB
820 ~ 859	MHz	28	41		dB
859 ~ 866.6	MHz	18	23		dB
866.6 ~ 867.2	MHz	10	29		dB
870.4 ~ 871.4	MHz	10	23		dB
871.4 ~ 875	MHz	15	32		dB
875 ~ 890	MHz	14	35		dB
890 ~ 950	MHz	32	45		dB
950 ~ 1500	MHz	50	59		dB
1500 ~ 2500	MHz	48	60		dB
Input Power Level			10		dBm
DC Voltage			0		V
Operating Temperature Range		-20		+70	°C
Storage Temperature Range		-40		+85	°C
Input Zin = Rin // Cin			150 // 2.66		Ω // pF
Output Zout = Rout // Cout			150 // 2.66		Ω // pF

*1): The matching circuit is real by actual passive components.

0805 Coillcraft CS series chip conductor is used for inductor.

0402 muRata GRM series is used for capacitor.