

Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: lnquiry@DynamicEngineers.com

SF3030AO-433.92MHz-C 433.92MHz Small Size SMD SAW Filter

Features and Benefits

Center frequency: 433.92MHz

I.L: 3.4dB Max.

Operating temperature: -40°C to +125°C

Size: 3x3x1.4mm

Package type: Surface Mount



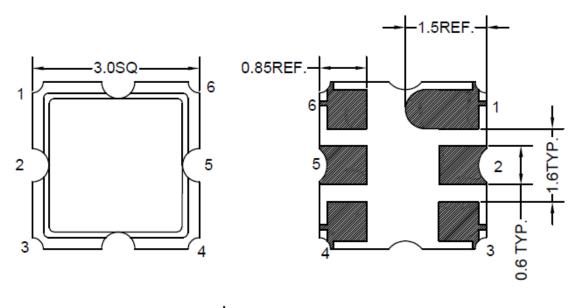
Typical Applications

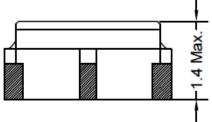
IOT Cellular Telecom 4G/LTE Wireless Communication WLAN Base Station Radar

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

Spec. Temperature: -40°C to +95°C

Parameter	Min.	Typical	Max.	Units	
Center Frequency Fc		433.92		MHz	
1.5dB BW	300	550		KHz	
3dB BW		670	900	KHz	
Insertion Loss IL					
Incl. loss of matching elements(Q=) *1)		2.6	3.4	dB	
Exclude loss in matching elements *2)		2.4	3.2	dB	
Passband (Relative to IL) *1) (433.77~434.07 MHz)		0.5	3	dB	
Attenuation (Relative to IL) *1)					
10~420 MHz	47	55		dB	
420~427 MHz	43	50		dB	
427~432 MHz	27	33		dB	
432~433 MHz	17	24		dB	
435~436 MHz	15	21		dB	
436~445 MHz	21	27		dB	
445~450 MHz	44	51		dB	
450~2000 MHz	42	49		dB	
Impedance at Fc, Input *1) Zin=Rin/Cin Zs	130 ohm//1.3pF			ohm	
Impedance at Fc, Output *1) Zout=Rout/Cout ZL		157 ohm//1.1p	57 ohm//1.1pF		
Input Power Level		10		dBm	
DC Voltage		6		V	
Operating Temperature Range	-40		+125	°C	
Storage Temperature Range	-40		+125	°C	

^{*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.

^{*2):} The matching circuit is ideal by simulation.