

# **Preliminary**



- SAW IF Filter, 243.95 MHz, 0.26 MHz Bandwidth
- 3.0 x 3.0 x 1.5 mm Surface-mount Case
- Input/Output Impedance 50  $\Omega$ /50 $\Omega$
- Complies with Directive 2002/95/EC (RoHS)

#### **MAXIMUM RATING:**

- 1. Input Power Level: +5dBm
- 2. Operating Temperature: -20°C to +85°C
- 3. Storage Temperature: -30°C to +85°C
- 4. Moisture Sensitivity Level: Level 1(MSL1)

### ELECTRICAL CHARACTERISTICS:

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Parameters	Unit	Min.	Typical	Max.
Nominal Center frequency, Fo	MHz	-	243.95	-
Insertion Loss at Fo	dB	-	3.3	4.2
3 dB Bandwidth	KHz	260	457	-
Amplitude ripple, Fo $\pm$ 100 KHz	dB	-	0.70	1.2
Group delay ripple, Fo $\pm$ 100 KHz	μsec	-	0.3	1.2
Attenuation(Reference level from 0dB )				
Fo $\pm$ 600 KHz	dB	29	35	-
Fo ± 10.7 MHz	dB	40	72	-
Fo ± 21.4 MHz	dB	60	70	-

\*Fo is fixed frequency defined on 243.95MHz

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

1. The design, manufacturing process, and specifications of this device are subject to change.

- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.









### **Measurement Circuit**

L1=100nH L2=100nH C1=2pF C2=2pF

### OUTLINE DRAWING:



# 6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint



Not Specified Tolerance : +/-0.15 mm Unit: mm

Y= Year WW = Week S = Shift

#### **Case Materials**

Materials		
Solder Pad Plating	0.3 to 1.0 $\mu m$ Gold over 1.27 to 8.89 $\mu m$ Nickel	
Lid Plating	2.0 to 3.0 µm Nickel	
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic	
	ROHS Compliance	

### PCB FOOTPRINT:



Pin no.	Connection		
1	GND		
2	GND		
3	IN/OUT		
4	GND		
5	GND		
6	OUT/IN		

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### FREQUENCY CHARACTERISTICS:





### TAPE AND REEL SPECIFICATIONS

Tape and Reel Standard per ANSI/EIA-481

Reel Count 7" = 500 13" = 3000



## **RECOMMENDED SOLDER PROFILE**

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
- 4. Time: 2 times maximum.

