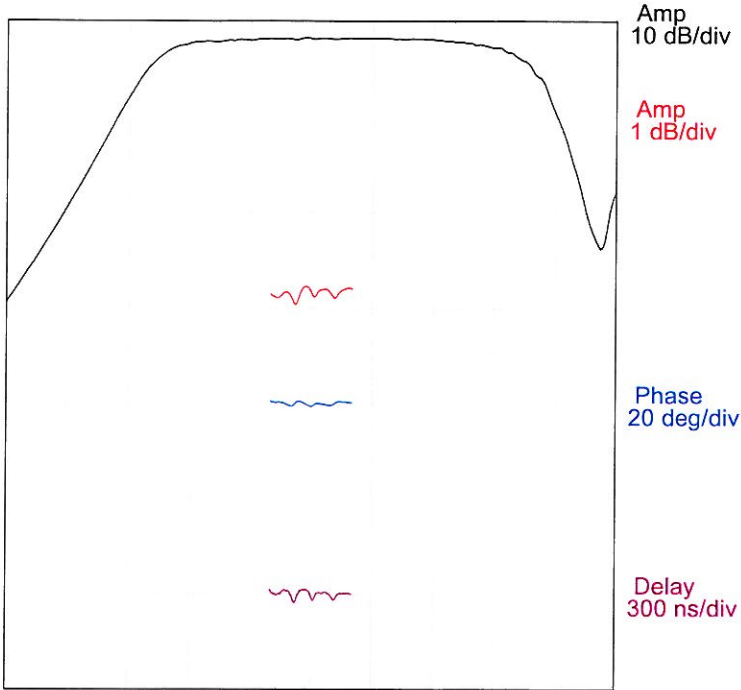


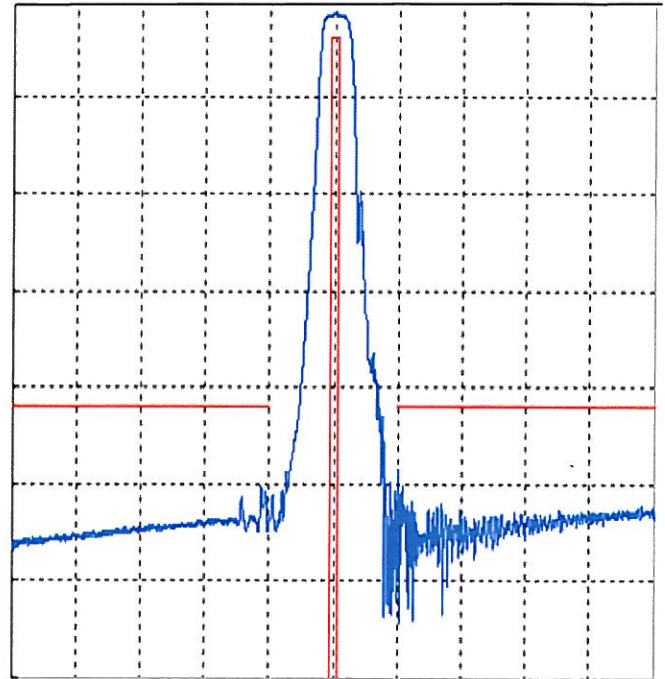
DESCRIPTION

- 487.5 MHz SAW filter with 2 MHz bandwidth.
- 5 x 5 mm LCC Package, 8 pads.
- RoHS compliant.

TYPICAL PERFORMANCE

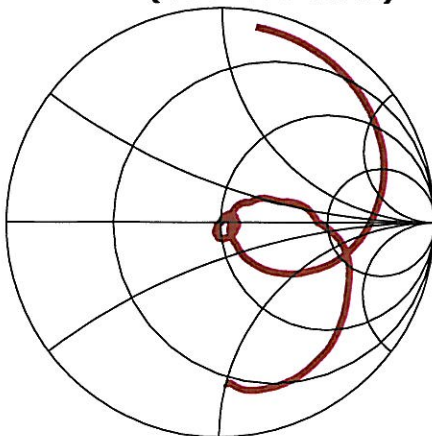


Center = 487.5 MHz, 1.5 MHz/div (18.8 kHz incr)

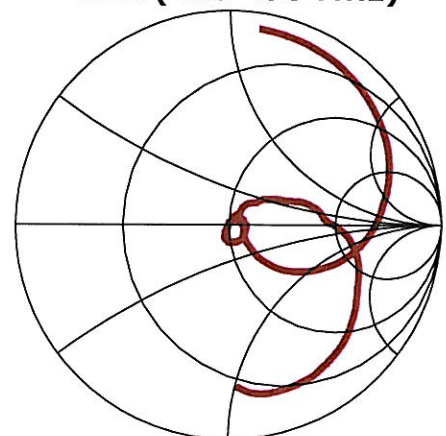


Center = 487.5 MHz, 20 MHz/div (25 kHz incr)

S11 (480-495 MHz)



S22 (480-495 MHz)



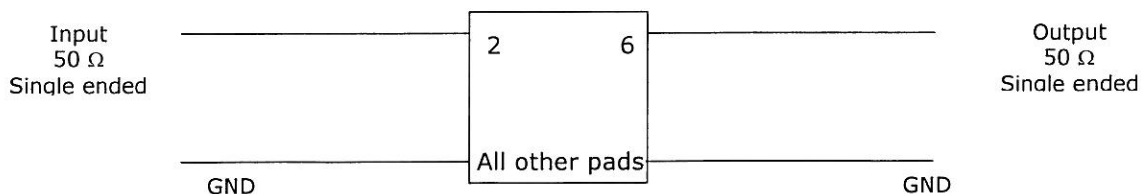
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	487.5	-	MHz
Insertion Loss (Fc +/- 1.0 MHz)	-	2.2	4	dB
Amplitude Ripple (Fc +/- 1.0 MHz)	-	0.3	1.0	dB p-p
Group Delay Ripple (Fc +/- 1.0 MHz)	-	80	300	ns p-p
Input Return Loss (Fc +/- 1.0 MHz)	9	12	-	dB
Output Return Loss (Fc +/- 1.0 MHz)	9	12	-	dB
Attenuation (Reference level from 0 dB)				
300 to 467.5 MHz	42	51	-	dB
507.5 to 700 MHz	42	48	-	dB
Source Impedance	50			Ω
Load Impedance	50			Ω
Ambient Temperature	25			$^{\circ}\text{C}$

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	$^{\circ}\text{C}$
Operating Temperature	-40	85	$^{\circ}\text{C}$
Input Power Level	-	+10	dBm
DC Voltage	-	3	V

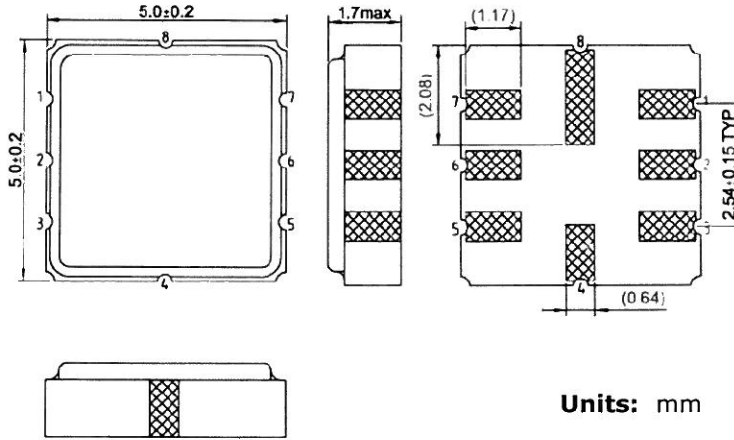
MATCHING CIRCUIT



Notes:

- External matching components are not required.
- Device is intended to operate in a 50 Ω single ended system.

PACKAGE OUTLINE



Units: mm

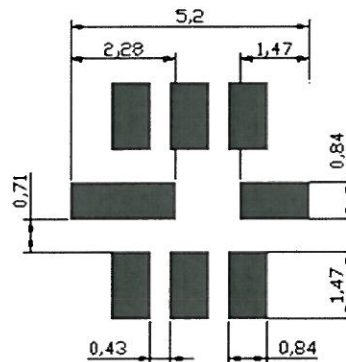
Pin Configuration:

- Input: 2
- Output: 6
- Case ground: 8
- Ground: 1, 3, 4, 5, 7

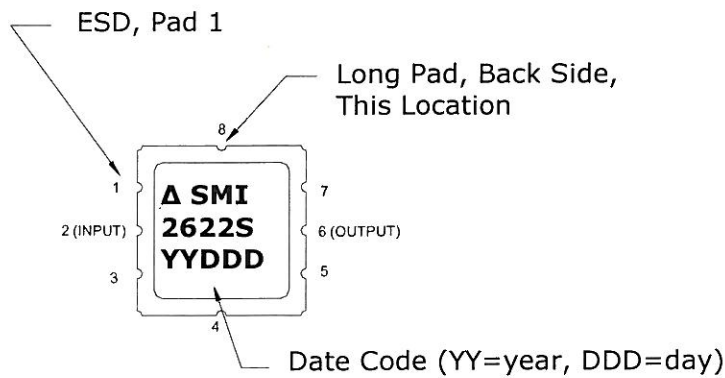
Package Material:

Body: Al_2O_3 ceramic
 Lid: Kovar, Ni plated
 Terminations: Au plating 1 μ m min,
 over a 1.3-8.9 μ m Ni plating

SUGGESTED FOOTPRINT



MARKING



All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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