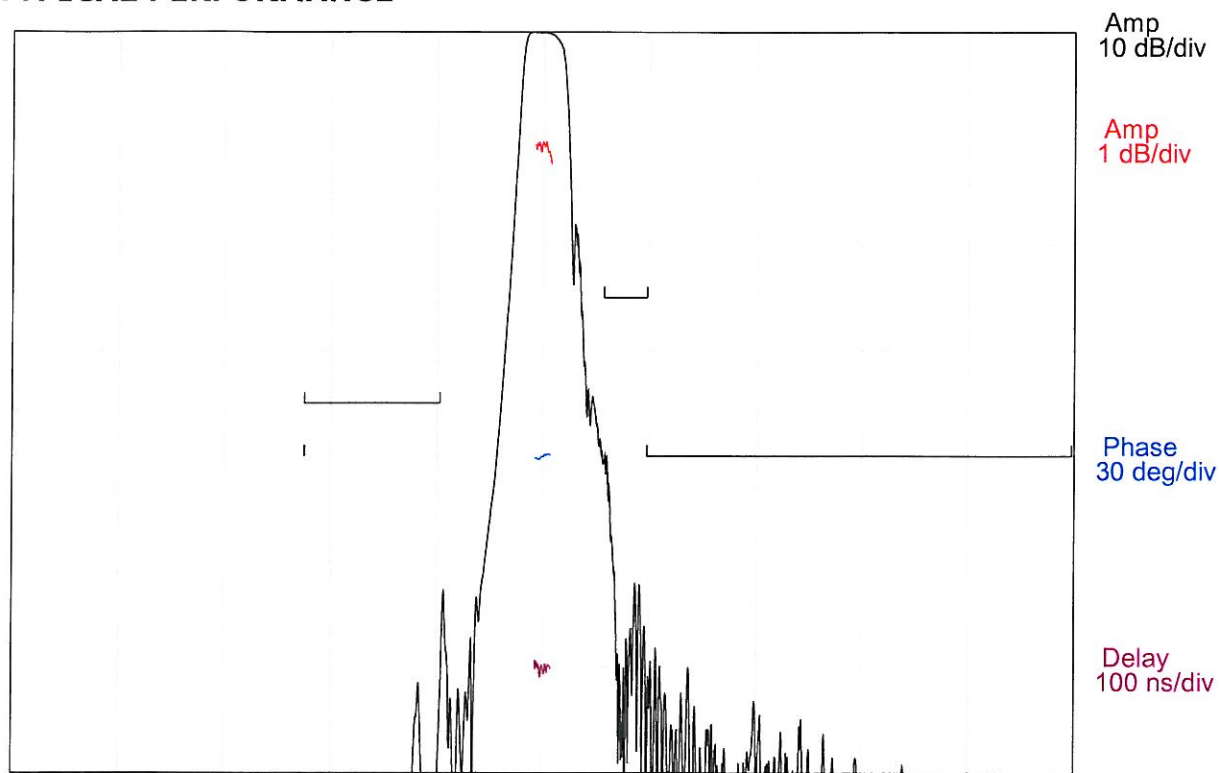


DESCRIPTION

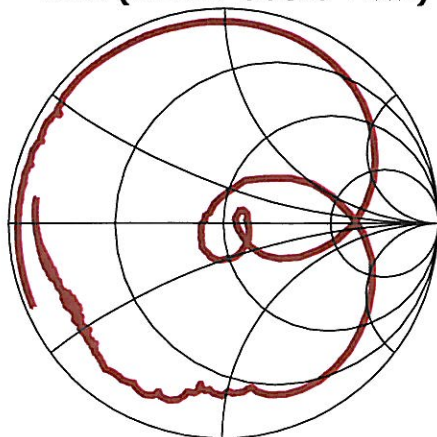
- 403.5 MHz SAW bandpass filter with 3 MHz bandwidth.
- 3.8 x 3.8 mm ceramic LCC package, 8 pads.
- RoHS compliant.

TYPICAL PERFORMANCE

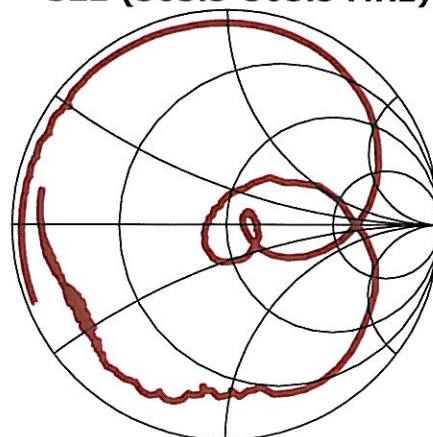


Center = 403.5 MHz, 20 MHz/div (125 kHz incr)

S11 (303.5-503.5 MHz)



S22 (303.5-503.5 MHz)



SPECIFICATION

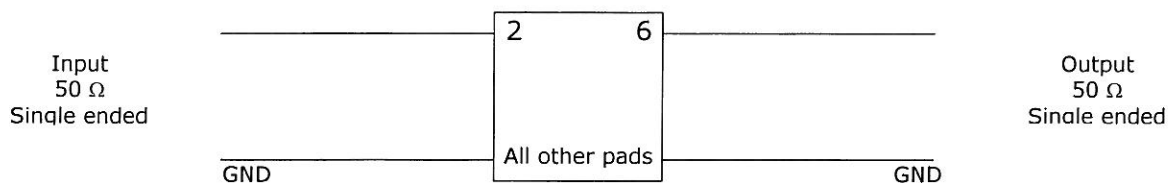
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	403.5	-	MHz
Minimum Insertion Loss	-	1.8	2.5	dB
Amplitude Ripple (402-405 MHz) ²	-	0.3	1.25	dB p-p
3 dB Bandwidth ²	-	8.5	-	MHz
Attenuation at 358.5 MHz ²	40	60	-	dB
Attenuation (358.5-384 MHz) ²	35	55	-	dB
Attenuation (415-423 MHz) ²	25	38	-	dB
Attenuation (423-503 MHz) ²	40	55	-	dB
Source and Load Impedance	50			Ω
Ambient Temperature	25			$^{\circ}\text{C}$

Notes: 1. Reference frequency. Computed as mean of the 3 dB frequencies.
2. All dB values are referenced to the Insertion Loss.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	$^{\circ}\text{C}$
Operating Temperature Range	-10	60	$^{\circ}\text{C}$
DC Voltage	-	3	V
Input Power Level	-	+15	dBm

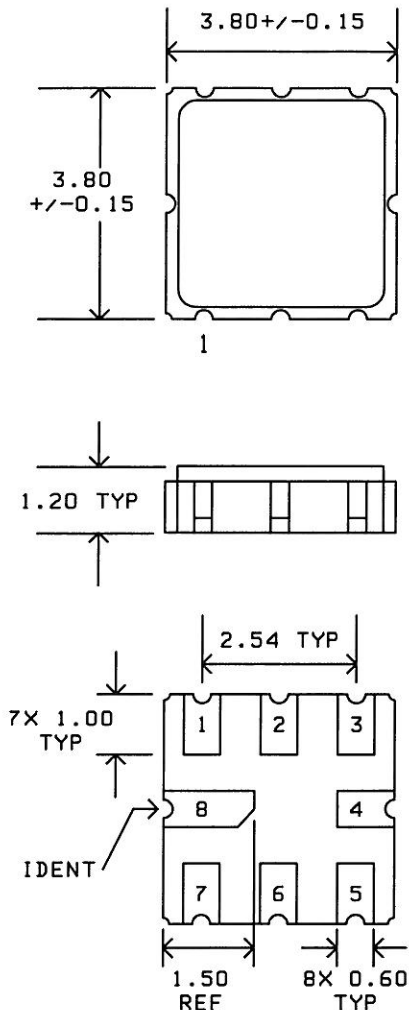
MATCHING CIRCUIT



Notes:

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

PACKAGE OUTLINE



Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

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

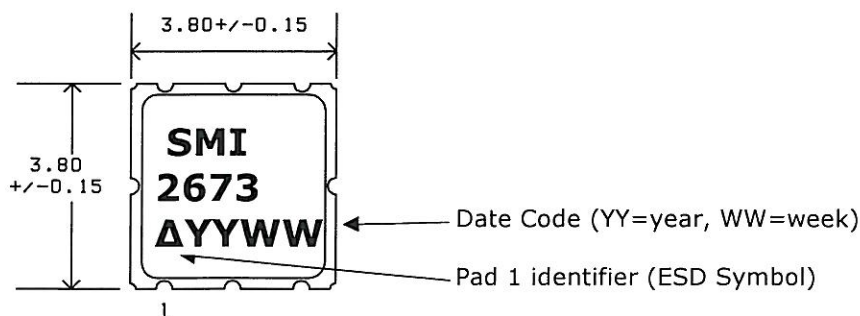
Package Material:

Body: Al_2O_3 ceramic

Lid: Kovar, Ni plated

Terminations: Au plating $1 \mu\text{m}$ min,
over a $1.3\text{-}8.9 \mu\text{m}$ Ni plating

MARKING



ISO 9001
Registered

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