

## SPECIFICATION

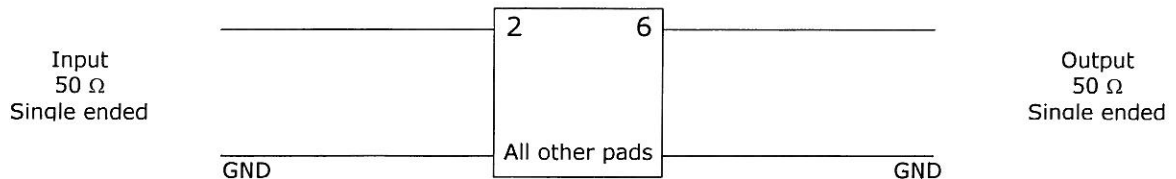
Parameter	Min	Typ	Max	Units
Center Frequency, $F_c$ <sup>1</sup>	-	403.5	-	MHz
Minimum Insertion Loss	-	1.8	2.5	dB
Amplitude Ripple (402-405 MHz) <sup>2</sup>	-	0.3	1.25	dB p-p
3 dB Bandwidth <sup>2</sup>	-	8.5	-	MHz
Attenuation at 358.5 MHz <sup>2</sup>	40	60	-	dB
Attenuation (358.5-384 MHz) <sup>2</sup>	35	55	-	dB
Attenuation (415-423 MHz) <sup>2</sup>	25	38	-	dB
Attenuation (423-503 MHz) <sup>2</sup>	40	55	-	dB
Source and Load Impedance	50			$\Omega$
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

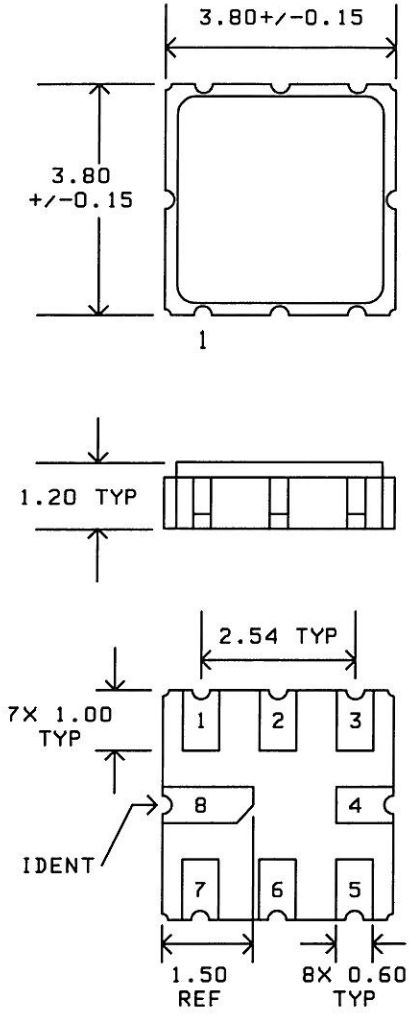
## MATCHING CIRCUIT



Notes:

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

**PACKAGE OUTLINE**

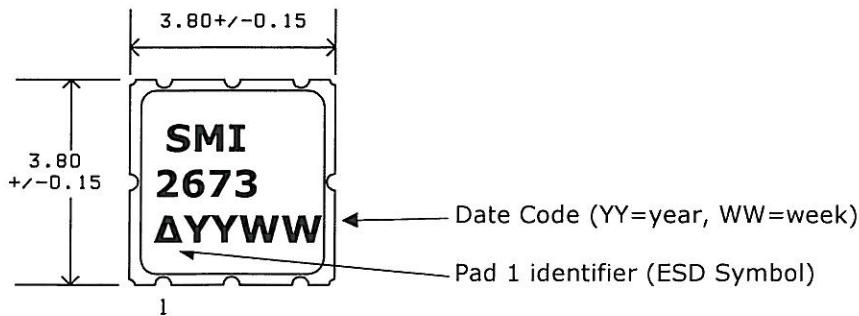


**Units:** mm  
 Tolerances are  $\pm 0.15$  mm except where indicated.

**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  $\mu$ m min, over a 1.3-8.9  $\mu$ m Ni plating

**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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