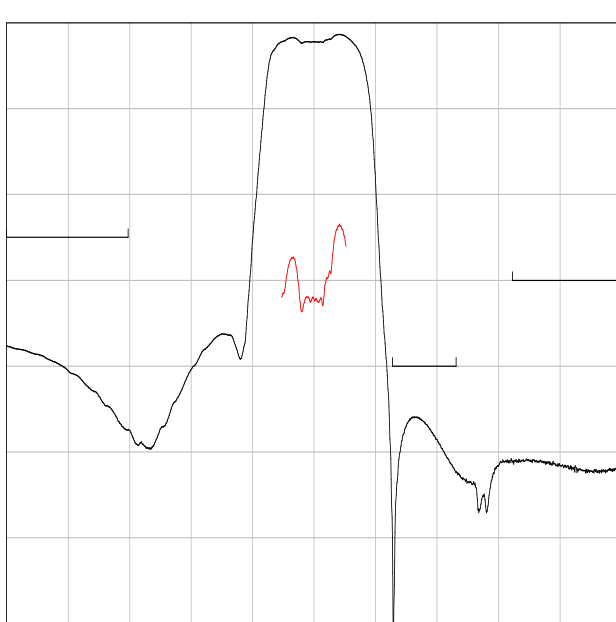


DESCRIPTION

- 2441.8 MHz SAW bandpass filter with 120.5 MHz bandwidth.
- 3 x 3 mm ceramic LCC package, 6 pads.
- RoHS compliant.

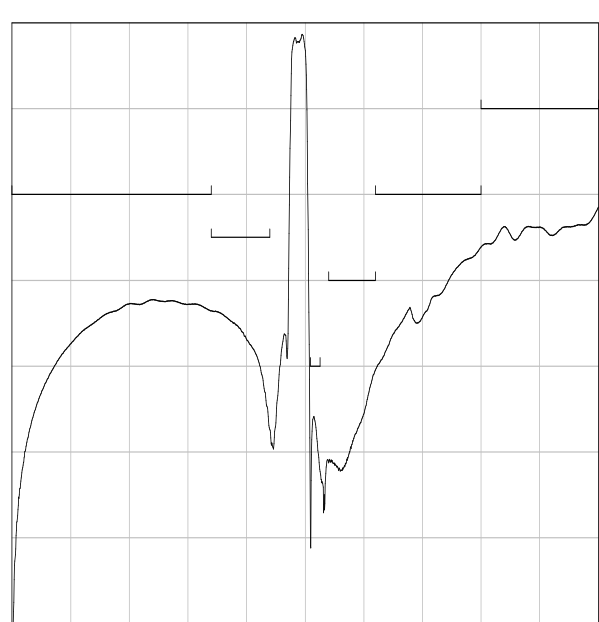
TYPICAL PERFORMANCE



Center = 2442 MHz, 80 MHz/div (500 kHz incr)

Amp
10 dB/div

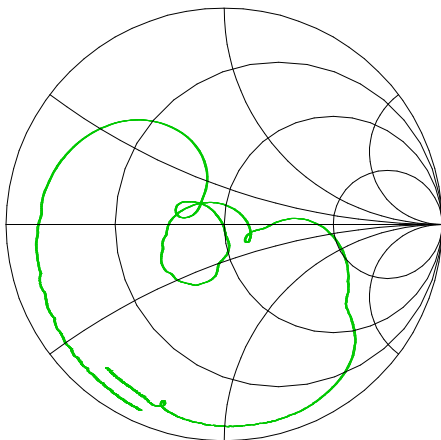
Amp
1 dB/div



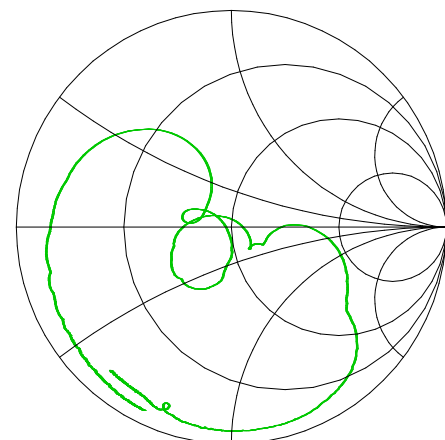
Amp
10 dB/c

Center = 2500.15 MHz, 499.97 MHz/div (3124.8 kHz incr)

S11 (2042-2842 MHz)



S22 (2042-2842 MHz)



SPECIFICATION

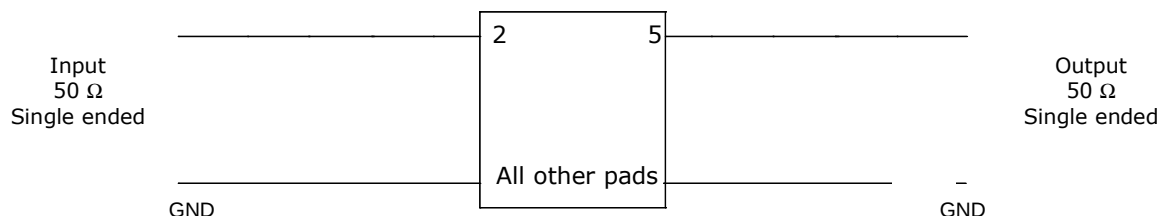
Parameter	Min	Typ	Max	Units
Center Frequency F_c^1	-	2441.8	-	MHz
Insertion Loss (2400 to 2483.5 MHz) IL	-	2.1	5.0	dB
Amplitude Ripple (2400 to 2483.5 MHz)	-	0.9	3.0	dB p-p
Attenuation (D.C. to 1700 MHz) ²	20	29	-	dB
Attenuation (1700 to 2200 MHz) ²	25	30	-	dB
Attenuation (2544 to 2627 MHz) ²	40	45	-	dB
Attenuation (2700 to 3100 MHz) ²	30	40	-	dB
Attenuation (3100 to 4000 MHz) ²	20	32	-	dB
Attenuation (4000 to 5000 MHz) ²	10	15	-	dB
VSWR (2400 to 2483.5 MHz)	-	1.8	2.6	:1
Source Impedance Z_s	50			ohm
Load Impedance Z_L	50			ohm

- Notes: 1. Fixed reference point.
2. Reference level from 0 dB.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-30	75	°C
Input Power Level	-	+10	dBm
DC Voltage	-	3	Volts

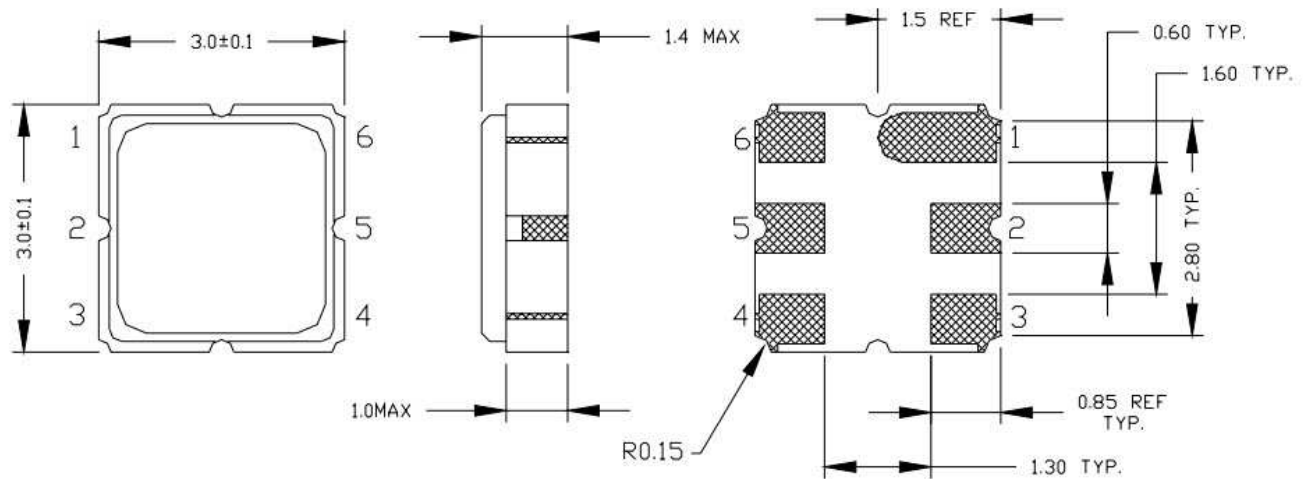
MATCHING CIRCUIT



Notes:

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

PACKAGE OUTLINE



Units: mm

Tolerances are typically ±0.15 mm except where indicated.

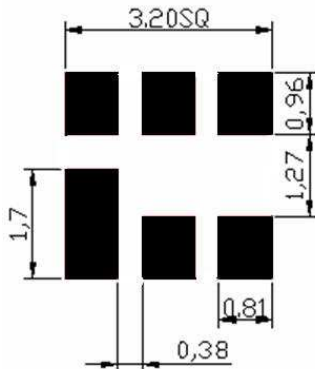
Pad Configuration:

Input: 2
 Output: 5
 Ground: All other pads

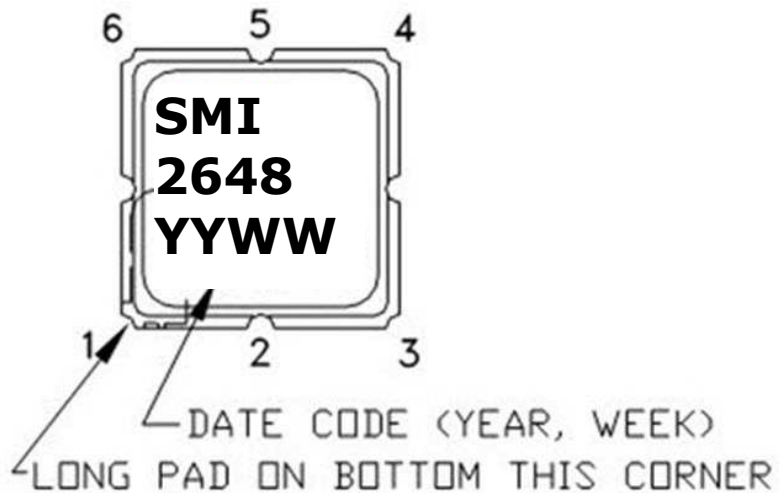
Package Material:

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

SUGGESTED FOOTPRINT



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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