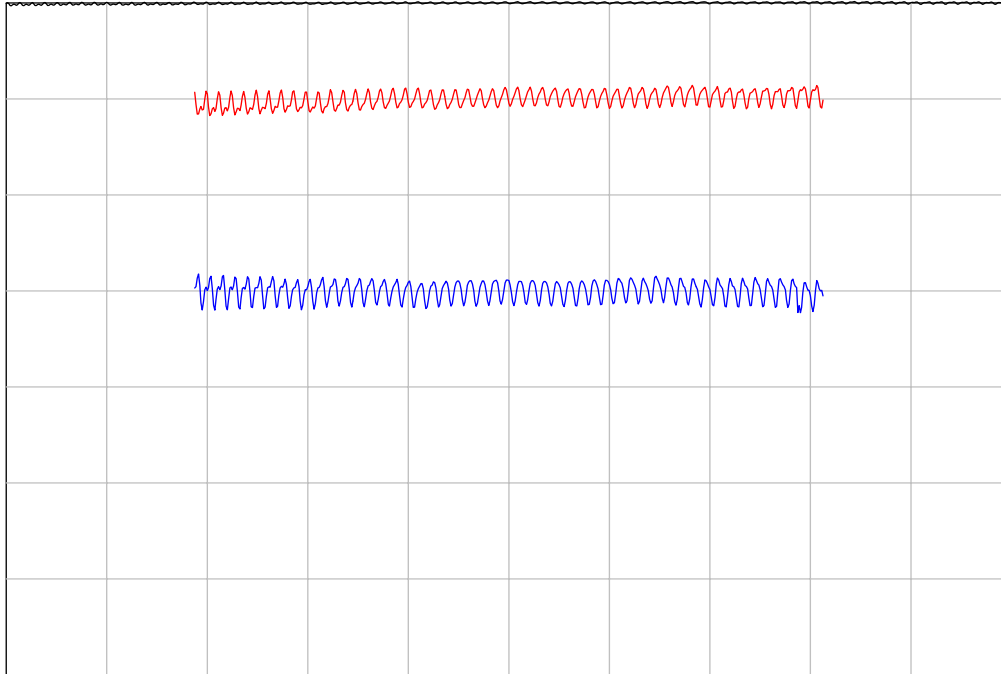


DESCRIPTION

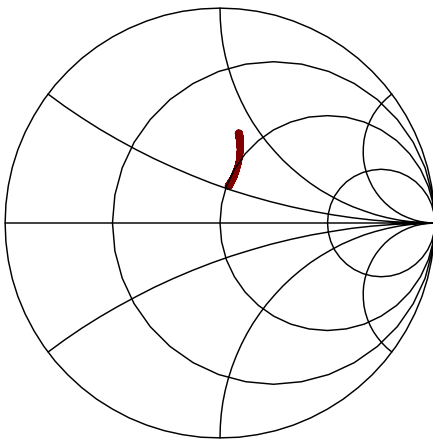
- 881.5 MHz SAW delay line with 25 MHz minimum bandwidth.
- 13.3 x 6.5 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

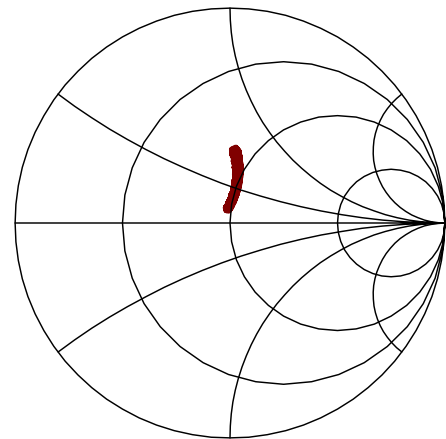


Horizontal: Frequency : 4 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase Linearity : 5 deg/div

S11 (861.5-901.5 MHz)



S22 (861.5-901.5 MHz)



SPECIFICATION

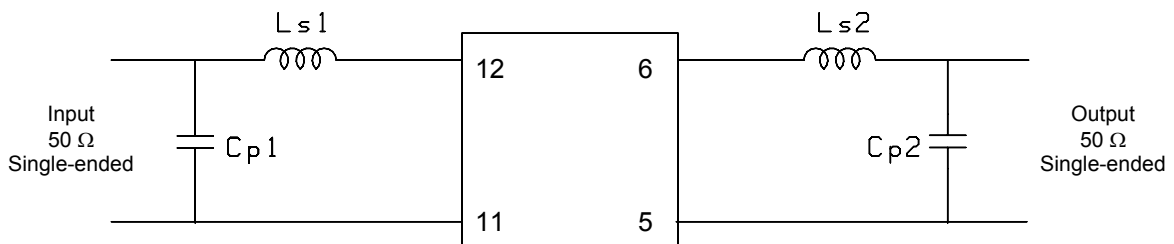
Parameter ²	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	881.5	-	MHz
Lower Passband Frequency	869	-	-	MHz
Upper Passband Frequency	-	-	894	MHz
Amplitude Ripple over any 1.25 MHz interval ²	-	0.6	1.0	dB p-p
RMS Phase Ripple over any 1.25 MHz interval ²	-	1.2	1.8	deg
Insertion Loss	-	21.2	22.5	dB
Delay ³	2.000	2.024	-	us
RF Feedthrough Suppression (GBD) ³	30	40	-	dB
Triple Travel Suppression (GBD) ³	30	35	-	dB
Source and Load Impedance	-	50	-	ohms
Output 3 rd Order Intercept Point (IP3) (GBD) ³	-	+13	-	dBm
Temp Coefficient of Delay	-	94	100	ppm/°C
Ambient Temperature	-	25	-	°C

Notes: 1. Fixed Reference.
2. To be satisfied across the interval bounded by the Upper and Lower Passband Frequencies.
3. GBD = Guaranteed by design.

MAXIMUM RATINGS

Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	25	85	°C
Operating Temperature Range	20	25	70	°C
Input Power Level	-	10	13	dBm

MATCHING CIRCUIT

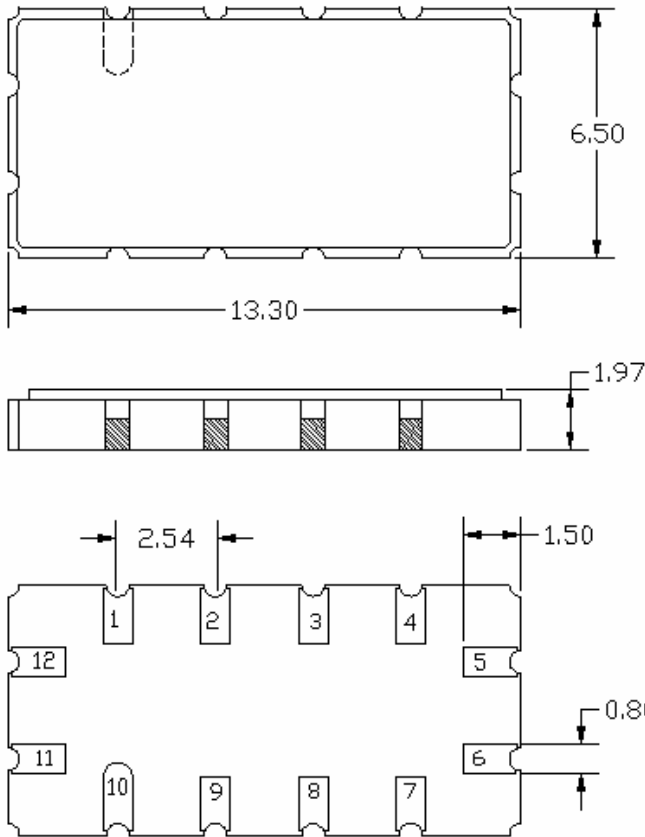


Typical component values: Ls1 = 8.2 nH Ls2 = 8.2 nH
 Cp1 = 5.6 pF Cp2 = 5.6 pF

Notes:

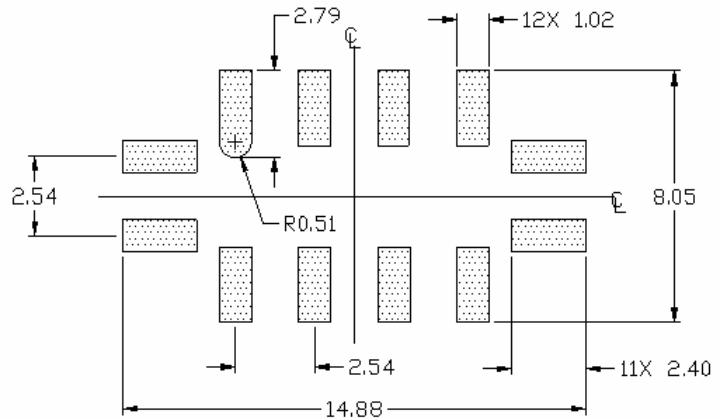
1. Recommend use of 2% tolerance matching components. Inductor Q=45.
2. Tuning values shown are for reference only. Values may change depending upon board layout.

PACKAGE OUTLINE



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



Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input:	12
Input return:	11
Output:	6
Output return:	5
Ground:	all other pads

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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