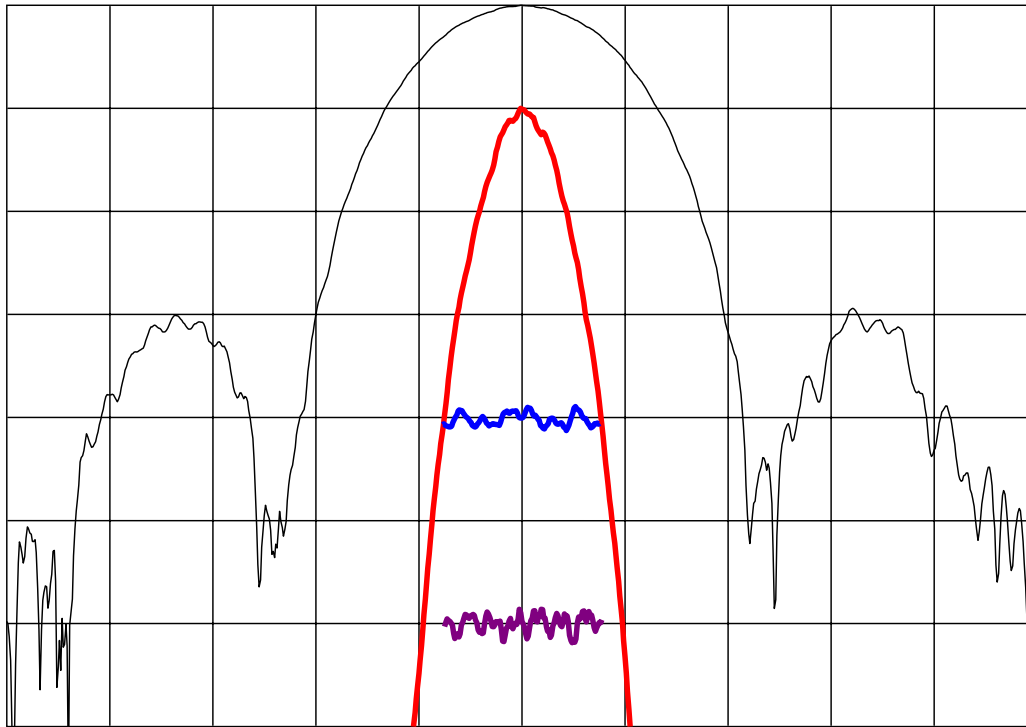


DESCRIPTION

- 60 MHz SAW differential delay line with 6 MHz bandwidth.
- 22.1 x 12.7 mm DIP.
- RoHS compliant.

TYPICAL PERFORMANCE



Horizontal:	Frequency :	5	MHz/div
Vertical from top:	Relative Magnitude :	10	dB/div
	Relative magnitude :	1	dB/div
	Phase Linearity :	5	deg/div
	Group Delay Deviation :	50	ns/div

SPECIFICATION

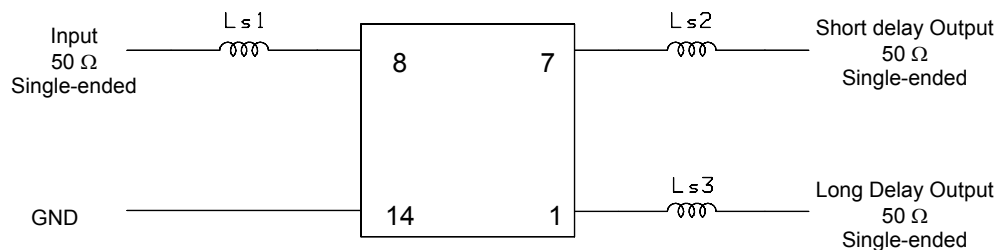
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	60.00	-	MHz
Insertion Loss at 60 MHz	-	31	34	dB
Amplitude Variation (57.0 to 63.0 MHz)	-	2.1	3	dB p-p
Delay Time of Short Path	0.620	0.650	0.680	usec
Delay Time of Long Path	0.870	0.900	0.930	usec
Lower 3dB Band Edge	-	56.35	57.00	MHz
Upper 3dB Band Edge	63.00	63.95	-	MHz
Short/Long Path Integration Loss Difference	-	1.3	2.0	dB
Average Differential Delay (Pins 1 to 7)	248	250	252	nsec
Temperature Coefficient of Delay	-	23	-	ppm/°C
Source and Load Impedance	-	50	-	Ω
Ambient Temperature	-	25	-	° C

Notes: 1. All specified bandwidths are referenced to this frequency.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-55	85	°C
Operating Temperature Range	-55	85	°C
Input Power Level		15	dBm

MATCHING CIRCUIT



Typical component values:
(Minimum inductor Q = 40)

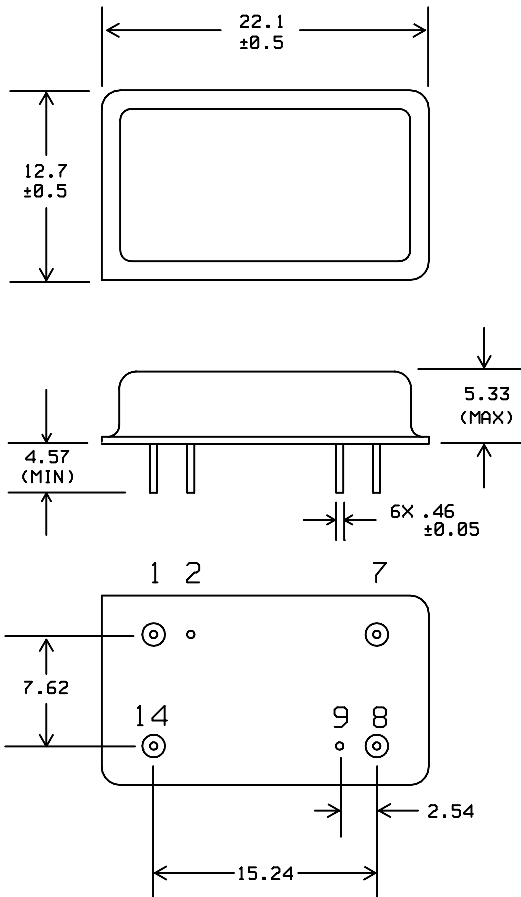
$$\begin{aligned} L_{s1} &= 330 \text{ nH} \\ L_{s3} &= 390 \text{ nH} \end{aligned}$$

$$L_{s2} = 390 \text{ nH}$$

Notes:

1. Recommend use of 2% tolerance matching components.
2. Component values may change depending on board layout.

PACKAGE OUTLINE



Units: mm

Tolerances are ± 0.15 mm except for the overall length, width and pad dimensions, which are nominal values.

Pin Configuration:

Input:	8
Output (short Delay):	7
Output (Long delay):	1
Ground:	2,9,14

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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