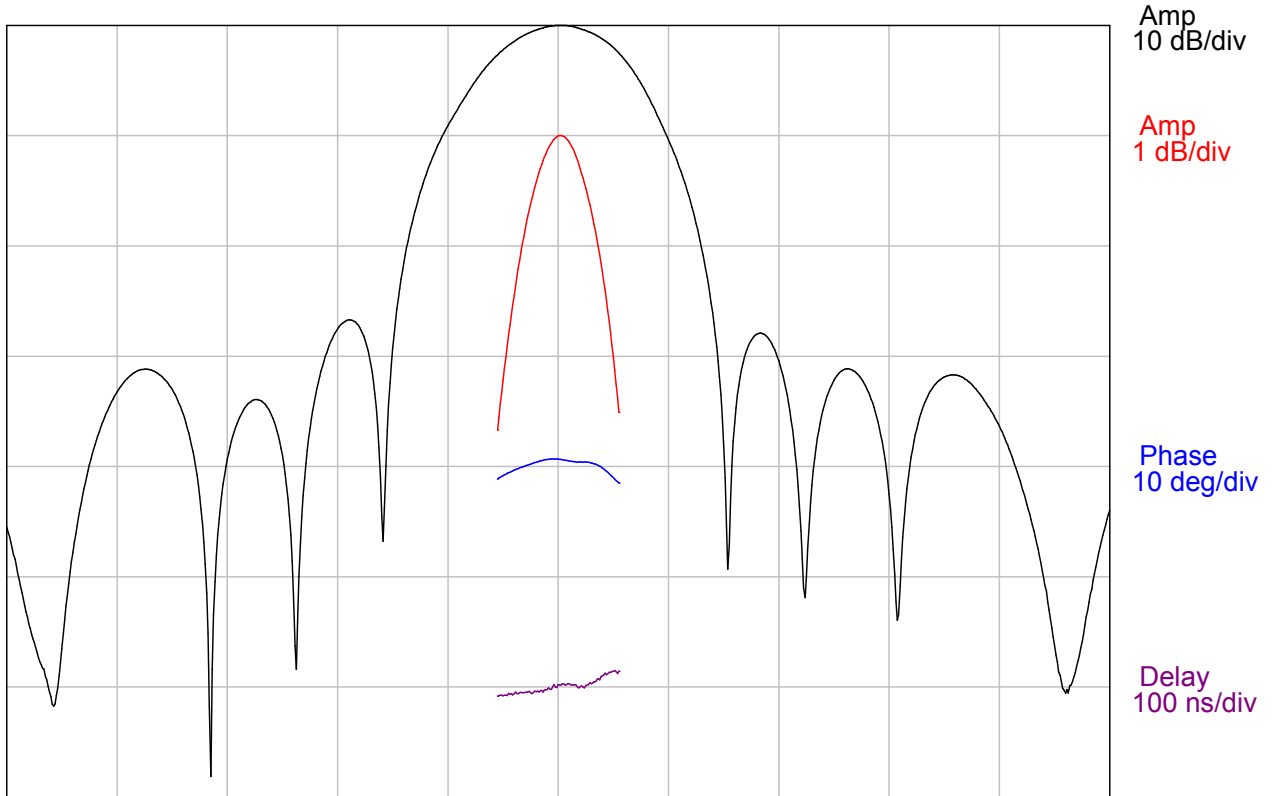




DESCRIPTION

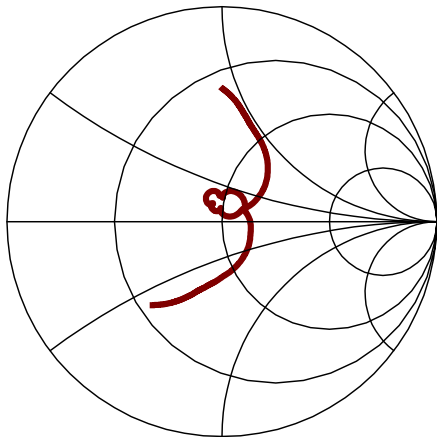
- 375 MHz SAW delay line with 2.25 MHz bandwidth.
- 5 x 7 mm ceramic LCC.
- RoHS compliant.

TYPICAL PERFORMANCE

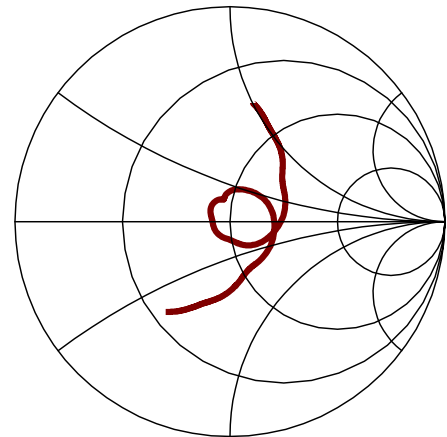


Center = 375 MHz, 2 MHz/div (25 kHz incr)

S11 (365–385 MHz)



S22 (365-385 MHz)



SPECIFICATION

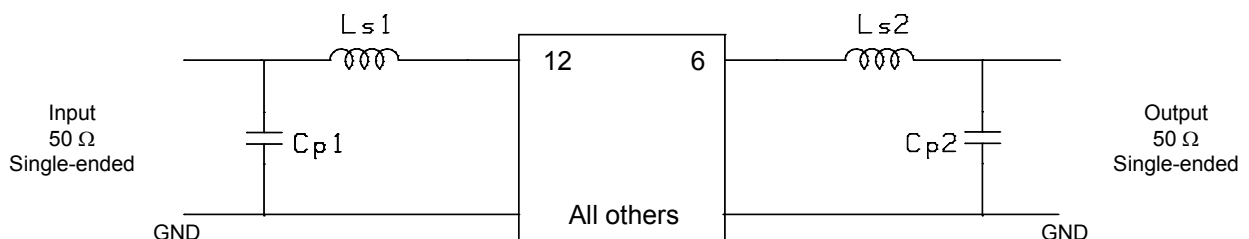
Parameter	Min	Typ	Max	Units
Center Frequency (Fc, at 10dB points) ^{2,3}	374.90	375	375.10	MHz
Insertion Loss	-	10.7	12	dB
3 dB Bandwidth	2.15	2.35	-	MHz
10 dB Bandwidth	-	4.06	4.4	MHz
Phase Linearity (373.9-376.1 MHz) ²	-	3	10	deg p-p
Phase Slope (in 3 dB BW)	-	-0.16	-	deg/kHz
Group Delay Ripple (373.9-376.1 MHz) ²	-	25	80	nsec p-p
Insertion Phase ^{1,2}	-	0	-	deg
Device Delay	-	430	-	ns
Turn Over Temperature (Tc)	-	53	-	° C
Source and Load Impedance	-	50	-	Ω
Ambient Temperature	-	23	-	° C

- Notes:
1. Measured at 375 MHz in a tuned reference test fixture.
 2. Specifications apply at an ambient temperature of 23C +/- 5C.
 3. Frequency versus temperature will be according to the following: $dF_c/F_c = -0.032 \text{ ppm} * (T-T_c)^2$ where (dF_c/F_c) = Change in center frequency (in ppm) and T = temperature (in degrees C).
Tc = the turnover temperature.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	125	°C
Operating Temperature Range	-30	100	°C
Input Power Level	-	+13	dBm

MATCHING CIRCUIT



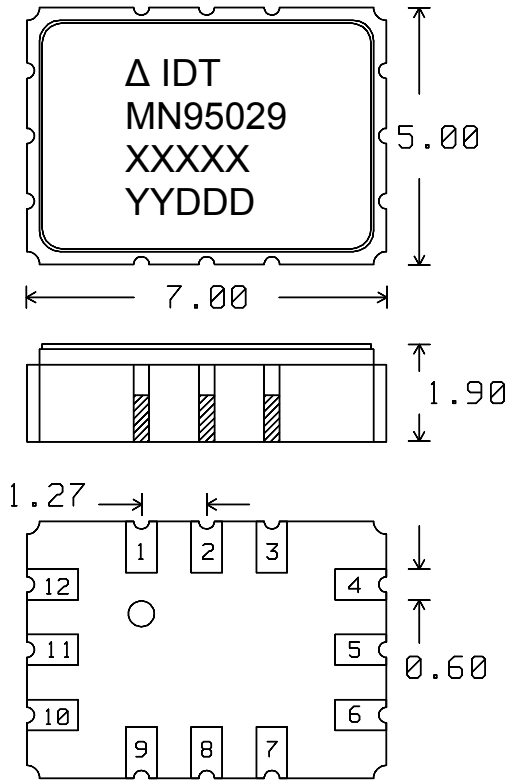
Typical component values:

$$\begin{aligned} L_{s1} &= 64.2 \text{ nH} & L_{s2} &= 56 \text{ nH} \\ C_{p1} &= 18 \text{ pF} & C_{p2} &= 18 \text{ pF} \end{aligned}$$

Notes:

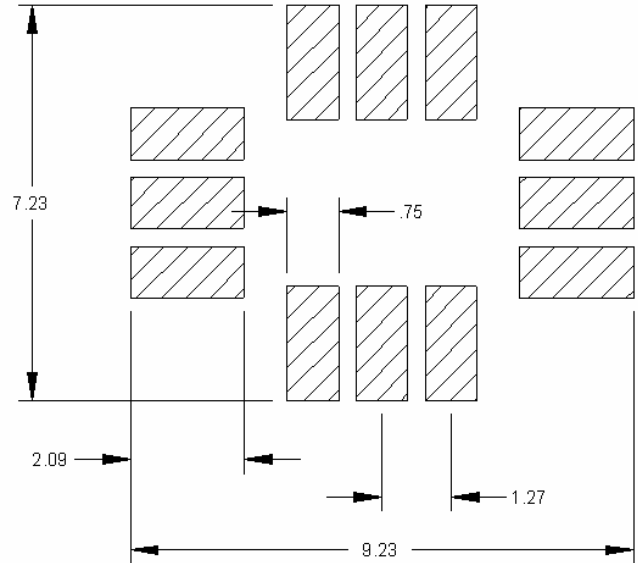
1. Recommend use of 2% tolerance matching components. Typical inductor Q=40.
2. Component values are for reference only and may change depending on board layout.

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

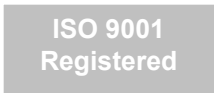


Units: mm

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

Pad Configuration:

Input:	12
Input return:	10
Output:	6
Output return:	4
Ground:	All other pads



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