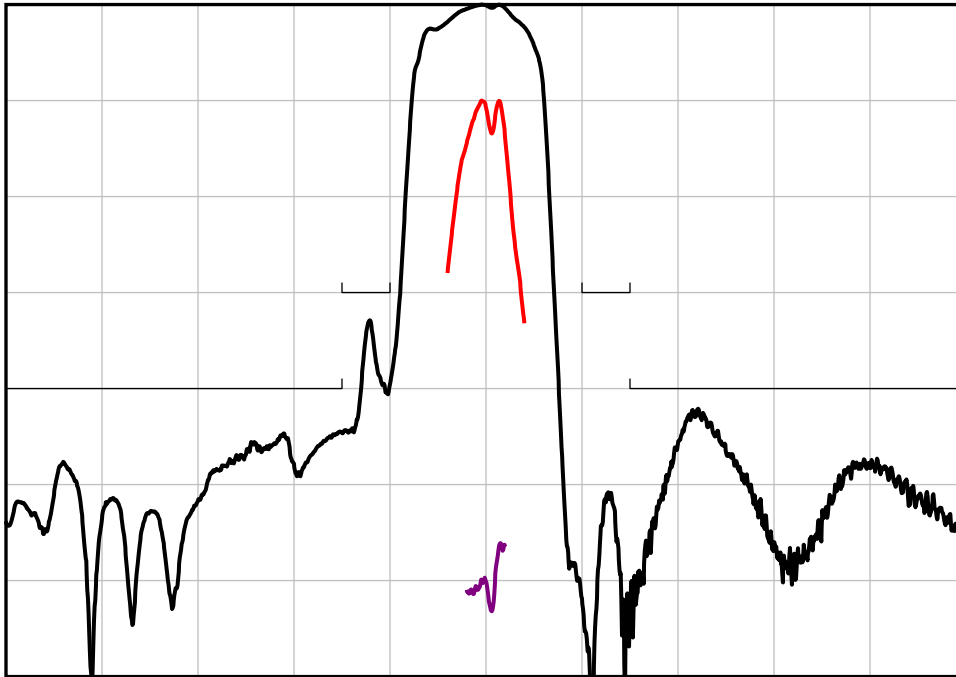




DESCRIPTION

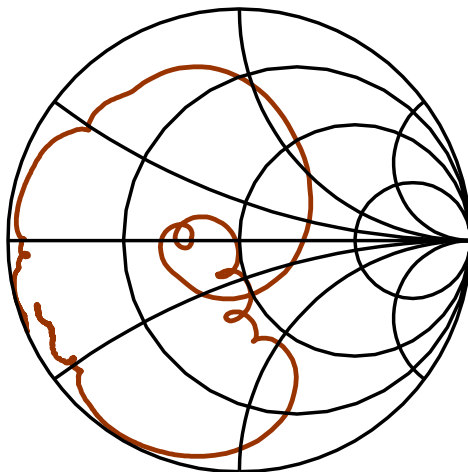
- 1090 MHz SAW bandpass filter with 12 MHz bandwidth.
- 3 x 3 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

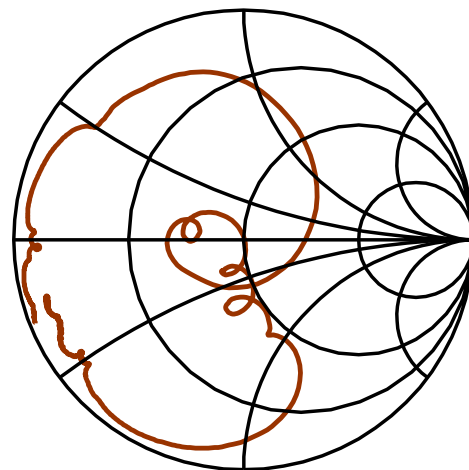


Horizontal: Frequency : 20 MHz/div
Relative Magnitude : 10 dB/div
Relative magnitude : 1 dB/div
Group Delay Variation : 25 ns/div

S11 (990 – 1190 MHz)



S22 (990 – 1190 MHz)



SPECIFICATION

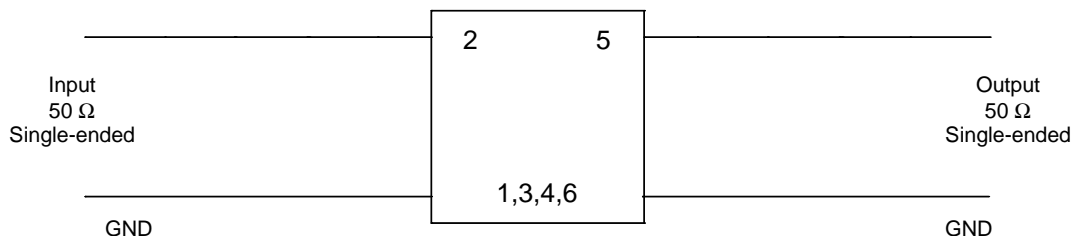
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	1090	-	MHz
Insertion Loss at F_c	-	2.7	3	dB
1dB Bandwidth	-	12	-	MHz
Lower 3 dB Band Edge ²	-	1079	1082.5	MHz
Upper 3 dB Band Edge ²	1097.5	1099	-	MHz
Group Delay Variation ($F_c \pm 4$ MHz)	-	16	25	ns p-p
Amplitude Variation ($F_c \pm 4$ MHz) at 25°C	-	0.7	1	dB p-p
Relative Attenuation (10 to 1060 MHz) ²	40	43	-	dB
Relative Attenuation (1060 to 1070 MHz) ²	32.5	34	-	dB
Relative Attenuation (1110 to 1120 MHz) ²	32.5	40	-	dB
Relative Attenuation (1120 to 1500 MHz) ²	40	45	-	dB
Relative Attenuation (1500 to 2300 MHz) ²	20	35	-	dB
Relative Attenuation (2300 to 3000 MHz) ²	5	30	-	dB
Input/Output VSWR	-	1.3	1.5	:1
Temperature Coefficient of Frequency	-	-32	-	ppm/°C
Source/Load Impedance	50			ohms
Ambient Temperature	-	25	-	°C

- Notes: 1. Defined as the average of the lower and upper 3 dB frequencies at room ambient.
2. All dB levels are defined relative to the insertion loss.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-50	125	°C
Operating Temperature Range	-40	85	°C
Input Power Level:			
CW in-band	+20	-	dBm
Pulse (10 us width at 1% duty cycle) @ F_c	+30	-	dBm
Pulse out-of-band (10 us width at 1% duty cycle) ($F_c \pm 30$ MHz)	+36	-	dBm
Pulse out-of-band (10 us width at 1% duty cycle) ($F_c \pm 32$ MHz)	+31	-	dBm

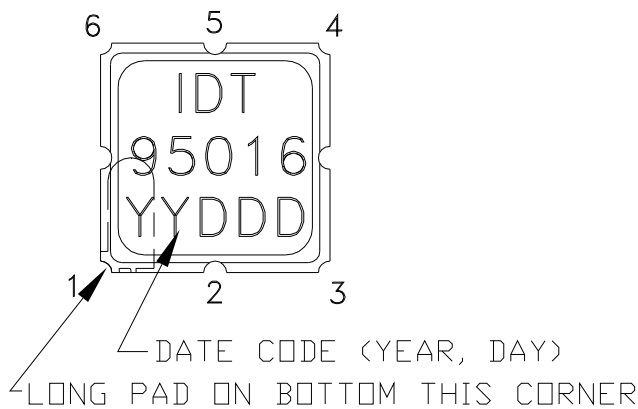
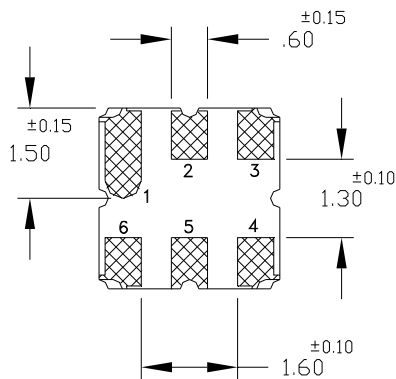
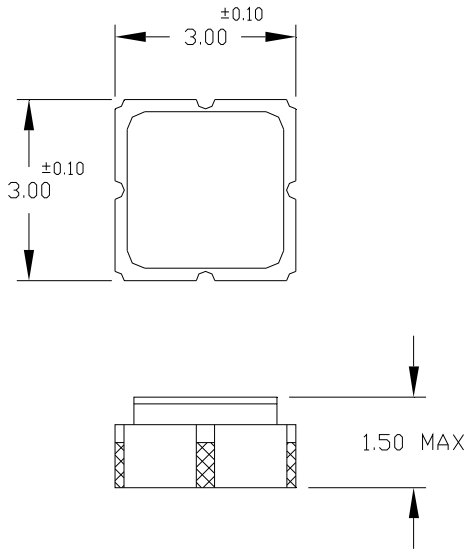
MATCHING CIRCUIT



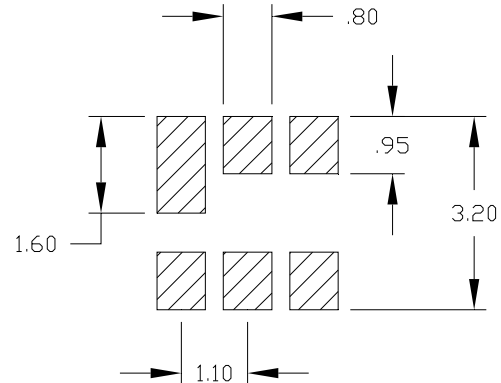
Notes:

1. Matching components are not required.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



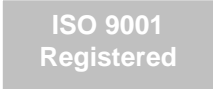
Package Material:
 Body: Al_2O_3 ceramic
 Lid: Kovar, Ni plated
 Terminations: Au plating 1 μ m min,
 over a 1.3-8.9 μ m Ni plating

Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input: 2
 Output: 5
 Ground: 1,3,4,6



All specifications are believed to be accurate and reliable. However, MNC reserves the right to make changes without notice.
 © 2009 All rights reserved.