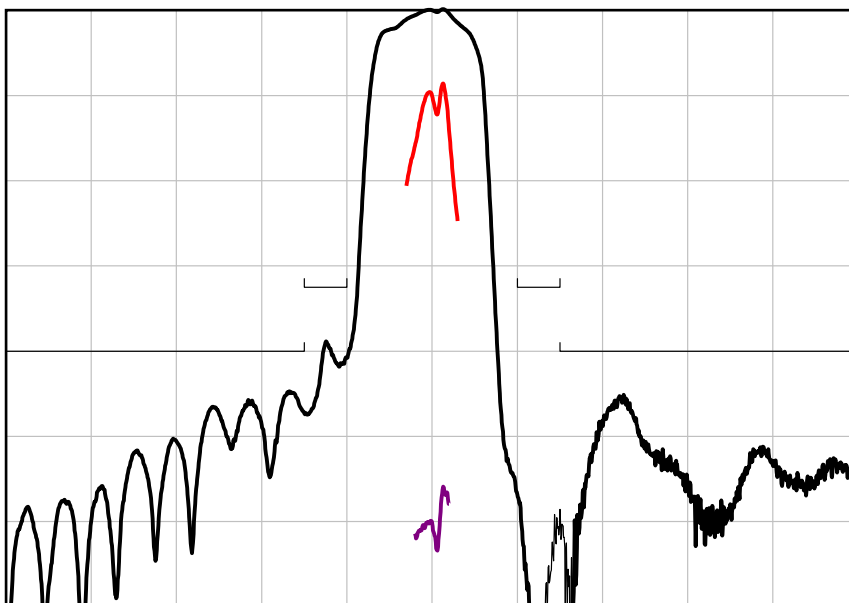




DESCRIPTION

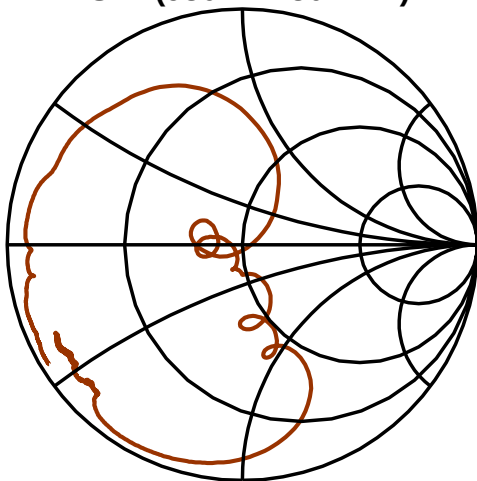
- 1030 MHz SAW bandpass filter with 12 MHz bandwidth.
- 3 x 3 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

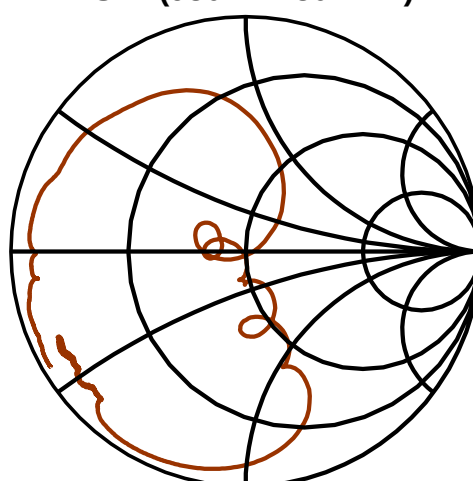


Horizontal: Frequency : 20 MHz/div
 Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Group Delay Variation : 25 ns/div

S11 (930 – 1130 MHz)



S22 (930 – 1130 MHz)





SPECIFICATION

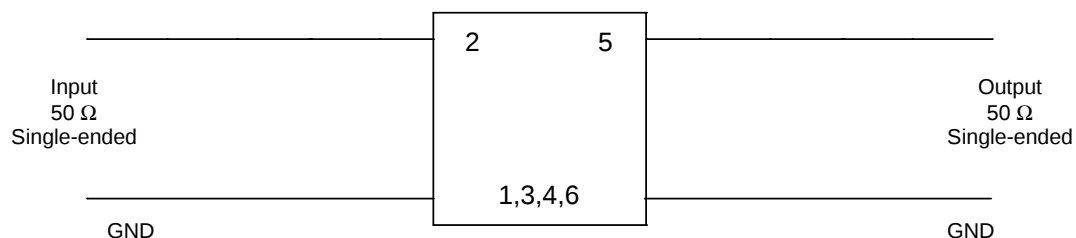
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	1030	-	MHz
Insertion Loss at F_c	-	2.7	3	dB
1dB Bandwidth	-	12	-	MHz
Lower 3 dB Band Edge ²	-	1021	1022.5	MHz
Upper 3 dB Band Edge ²	1037.5	1039	-	MHz
Group Delay Variation ($F_c \pm 4$ MHz)	-	16	25	ns p-p
Amplitude Variation ($F_c \pm 2.5$ MHz) at 25°C	-	0.35	0.4	dB p-p
Relative Attenuation (10 to 1000 MHz) ²	40	43	-	dB
Relative Attenuation (1000 to 1010 MHz) ²	32.5	34	-	dB
Relative Attenuation (1050 to 1060 MHz) ²	32.5	40	-	dB
Relative Attenuation (1060 to 1500 MHz) ²	40	44	-	dB
Relative Attenuation (1500 to 2200 MHz) ²	20	35	-	dB
Relative Attenuation (2200 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	+32	-	dBm
Pulse out-of-band (10 us width at 1% duty cycle) ($F_c \pm 30$ MHz)	+37	-	dBm
Pulse out-of-band (10 us width at 1% duty cycle) ($F_c \pm 32$ MHz)	+32	-	dBm

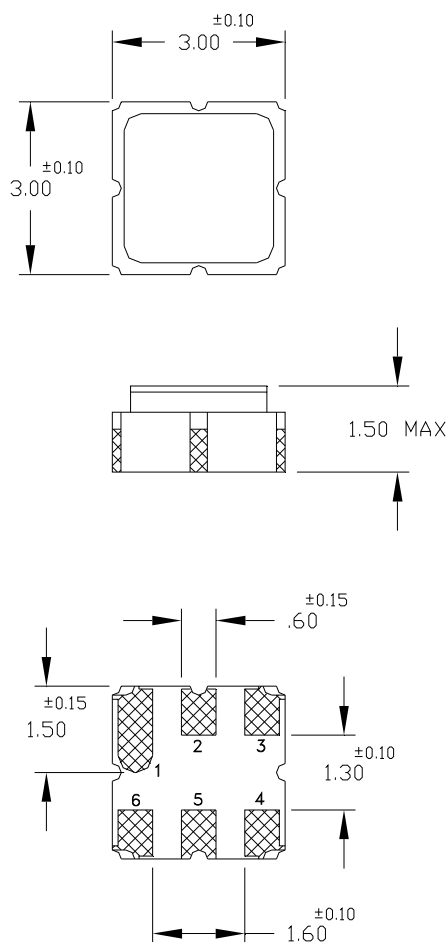
MATCHING CIRCUIT



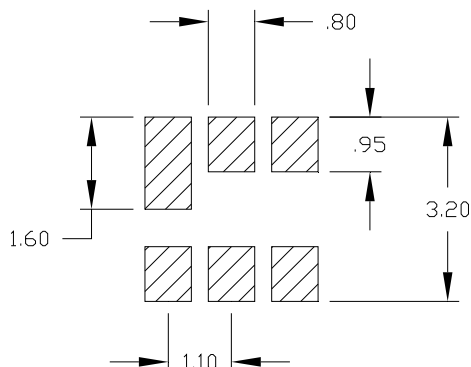
Notes:

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

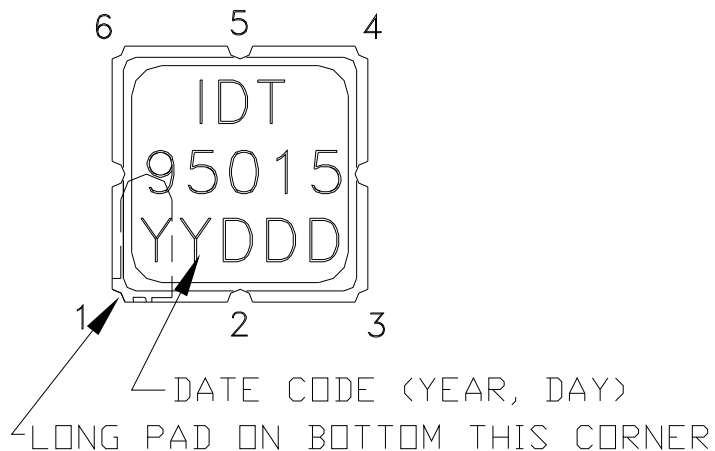
Units: mm

Tolerances are ± 0.15 mm except
where indicated.

Pad Configuration:

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

MARKING



ISO 9001
Registered

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