

Triplexer

50Ω (1 to 2500MHz)
(1-1280,1550-1700,2400-2500MHz)

WGTP-25201125A1T

Ver. A

20250514

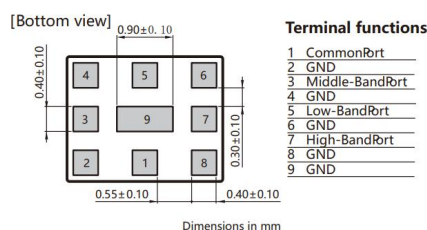
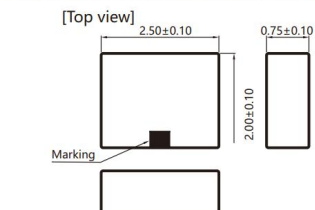
Maximum Rating

Operating Temperature -50°C~+100°C

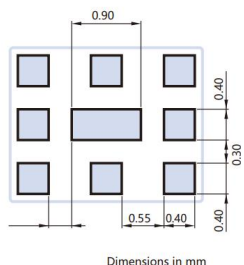
Storage Temperature -50°C~+100°C

RF Input Power 2W max at 25°C

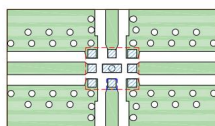
SHAPES AND DIMENSIONS



RECOMMENDED LAND PATTERN



EVALUATION BOARD



- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
- BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 - DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Notes

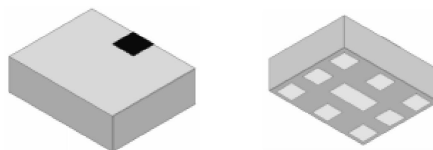
- The specifications are tested at 25°C±5°C, relative humidity 55~75%.
- Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.

Features

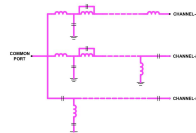
- High Performance
- Small Size
- High rejection
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

Application

- Triple-band for BDS, GPS navigation and 2.4 Ghz WLAN.



RoHS Compliant



Functional Schematic

Electrical Specifications⁽¹⁾ at 25°C

Low-Band						
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	1-1280	-	1.3	1.8	dB
	VSWR	1-1280	-	1.5	1.9	:1
Stop Band	Rejection Loss	1550-1700	17	21	-	dB
		2400-2500	20	25	-	dB
Middle-Band						
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	1550-1700	-	1.3	1.8	dB
	VSWR	1550-1700	-	1.6	1.9	:1
Stop Band	Rejection Loss	1-1280	15	18	-	dB
		2400-2500	25	32	-	dB
High-Band						
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	2400-2500	-	1.4	1.8	dB
	VSWR	2400-2500	-	1.8	2.2	:1
Stop Band	Rejection Loss	1-1280	20	25	-	dB
		1550-1700	20	25	-	dB
Common						
Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Isolation	Low Band	1550-1700	16	21	-	dB
		2400-2500	16	21	-	
	Middle Band	1-1280	16	21	-	
		2400-2500	16	21	-	
	High Band	1-1280	16	20	-	
		1550-1700	16	20	-	

Notes

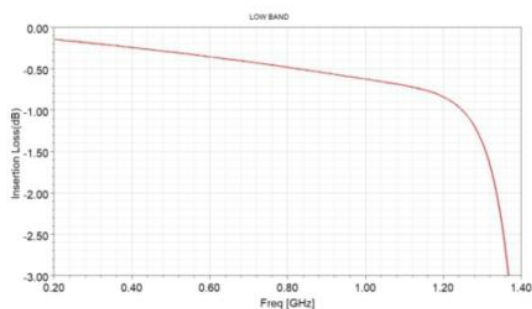
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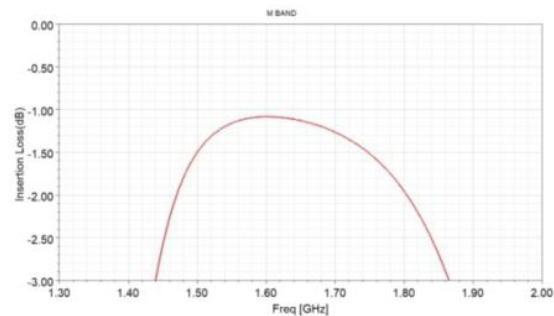
Well Genius Technology (Shanghai) LTD.

Room 904, Block B, Hi-Tech Building, No.900 Yi Shan Rd, Shanghai, P.R.C Tel: (021) 6495 8888 Fax: (021) 5423 5889 Zip Code: 200233

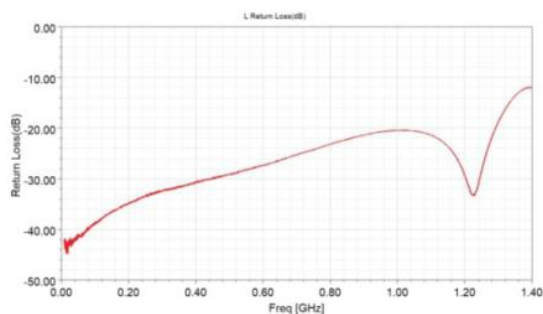
■ LOW BAND Insertion Loss



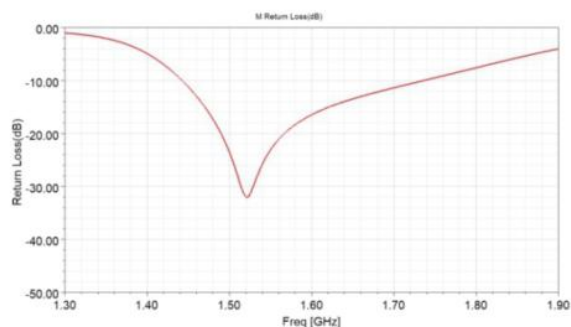
■ MIDDLE BAND Insertion Loss



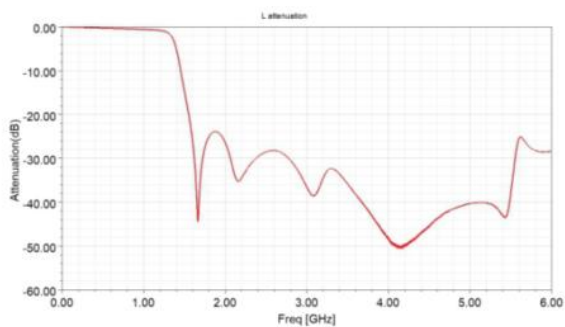
Return Loss



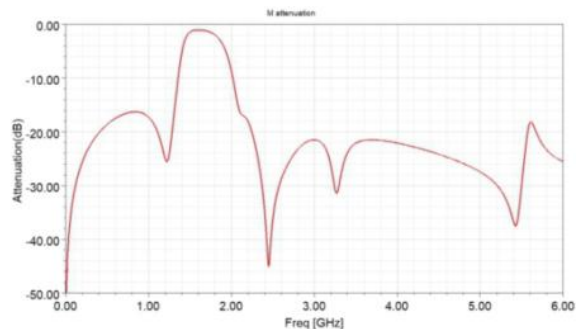
Return Loss



Attenuation

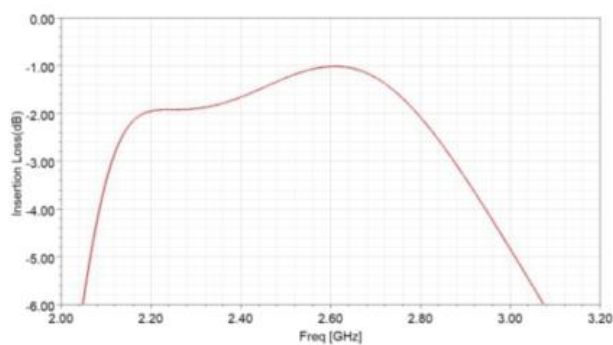


Attenuation

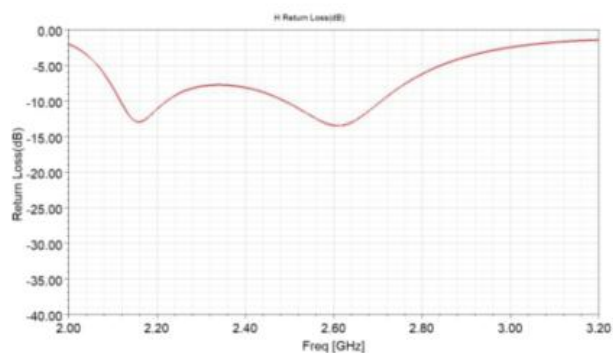


典型频率特性 Frequency characteristics

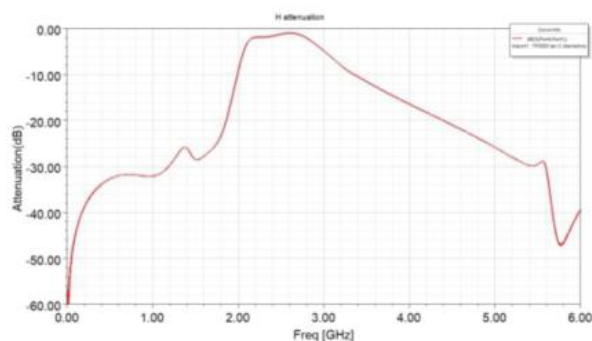
■ HIGH BAND Insertion Loss



Return Loss



Attenuation

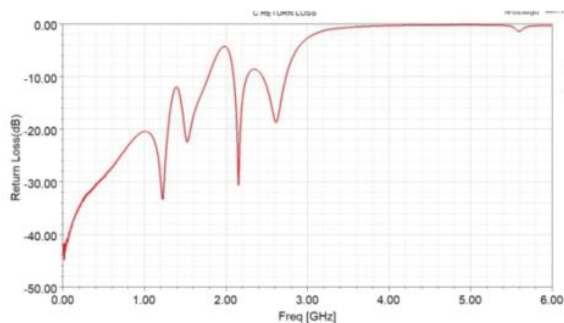


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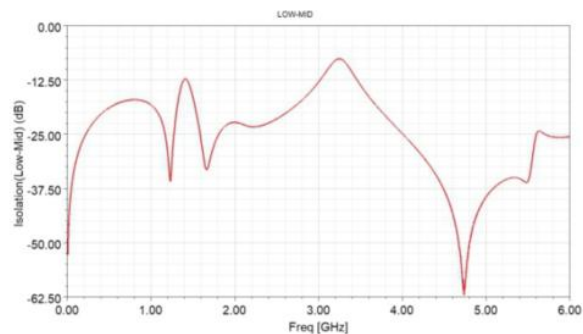
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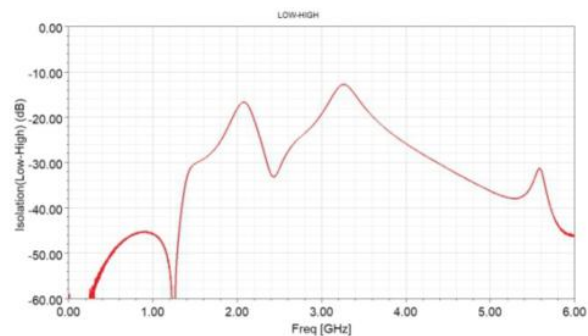
■ COMMON Return Loss



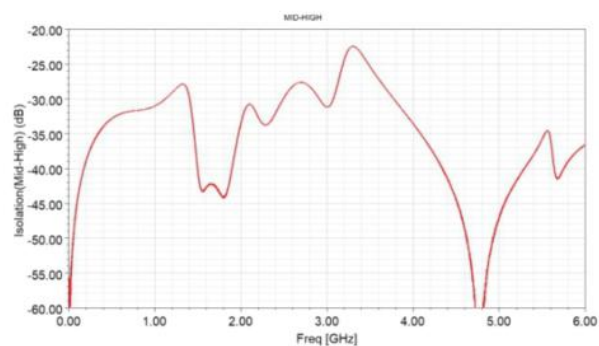
Isolation (Low-Mid)



Isolation (Low-High)



Isolation (Mid-High)



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