

Triplexer

WGTP-25201125A1T

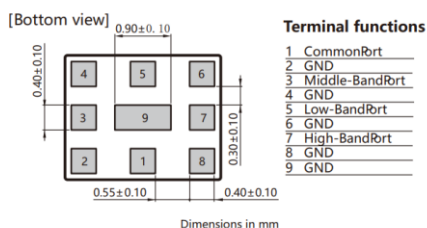
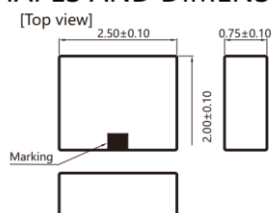
50Ω (1 to 2500MHz)
(1-1280, 1550-1700, 2400-2500MHz)

Ver. A
20220707

Maximum Rating

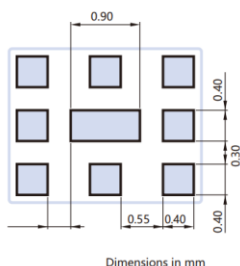
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
RF Input Power	2W max at 25°C

SHAPES AND DIMENSIONS



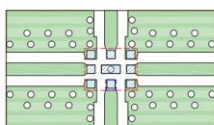
Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

EVALUATION BOARD



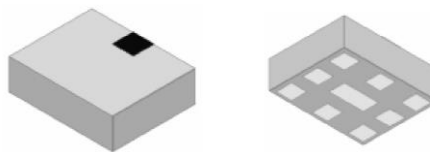
- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
- BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 - DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)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

Notes

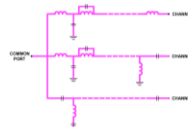
- The specifications are tested at 25°C±5°C, relative humidity 55~75%.
- Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.

Features

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



RoHS Compliant



Functional Schematic

Application

- 2.4GHz ISM Band RF Application
- Transmitters/Receivers
- Beidou, GPS navigation

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	-	dB
	Middle band	1-1280	16	21	-	dB
		2400-2500	16	21	-	dB
	High band	1-1280	16	20	-	dB
		1550-1700	16	20	-	dB

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.



Well Genius Technology (Shanghai) LTD.

Room 1001, Block C, Hi-Tech Building, No.900 Yi Shan Rd, Shanghai, P.R.C, 200233

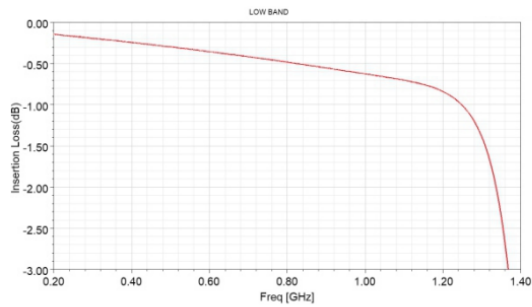
Tel: (021) 6495 8888

Fax: (021) 5423 5889

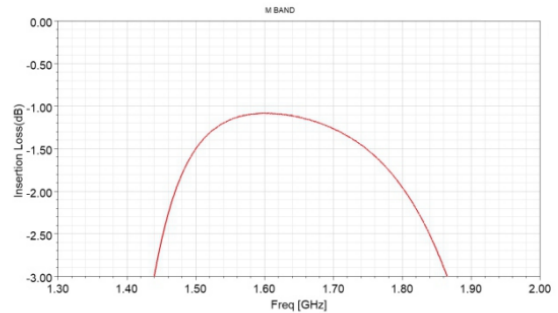
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典型频率特性 Frequency characteristics

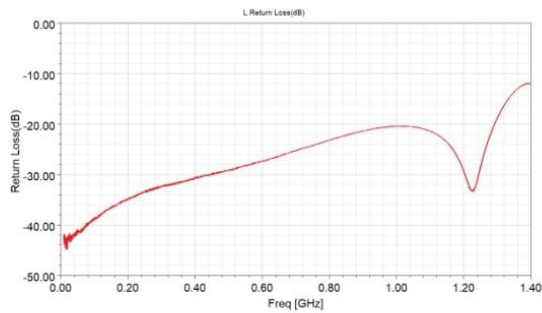
■ LOW BAND Insertion Loss



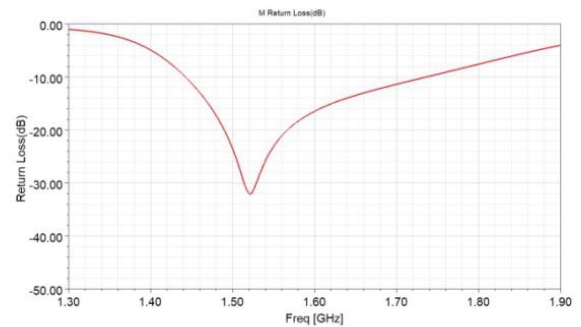
■ MIDDLE BAND Insertion Loss



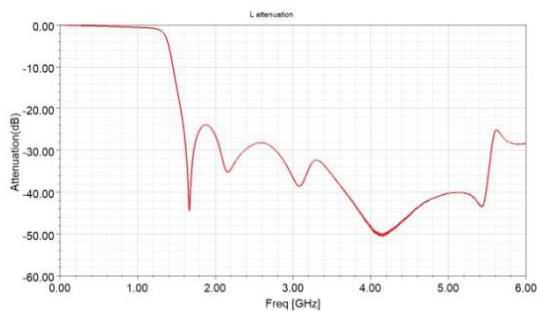
Return Loss



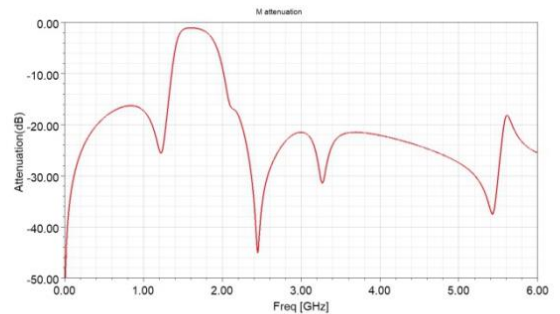
Return Loss



Attenuation

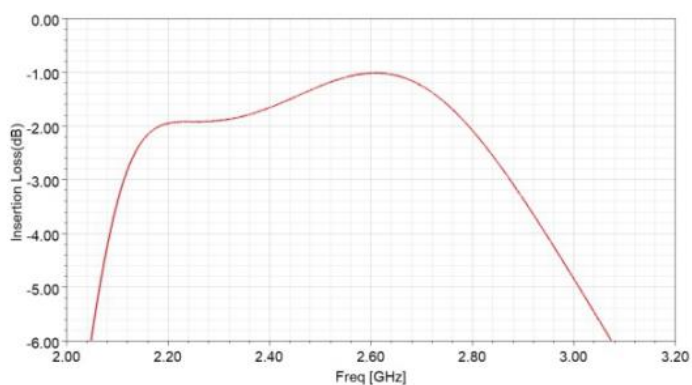


Attenuation

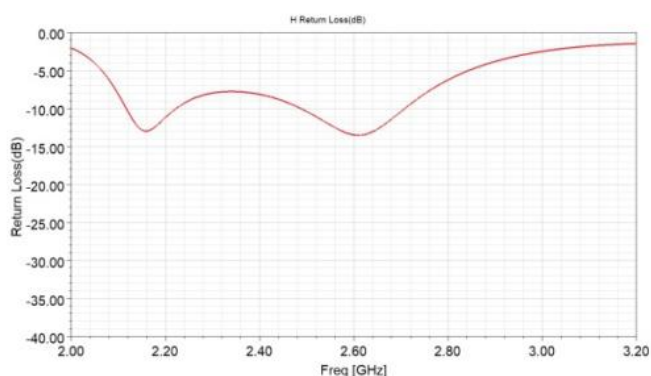


典型频率特性 Frequency characteristics

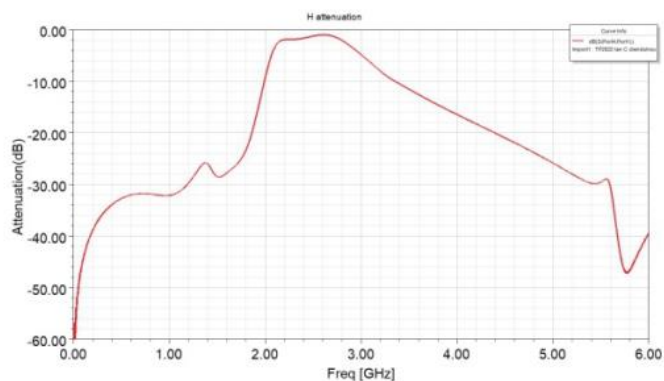
■ HIGH BAND Insertion Loss



Return Loss



Attenuation

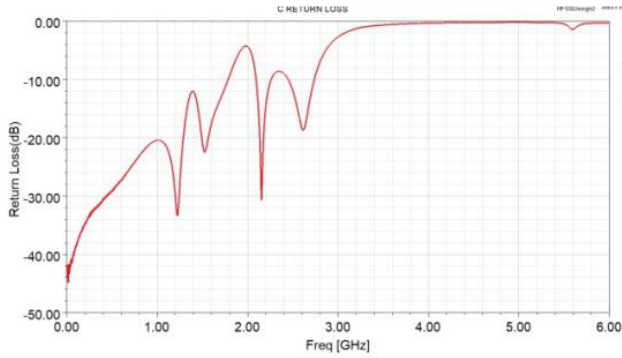


Triplexer

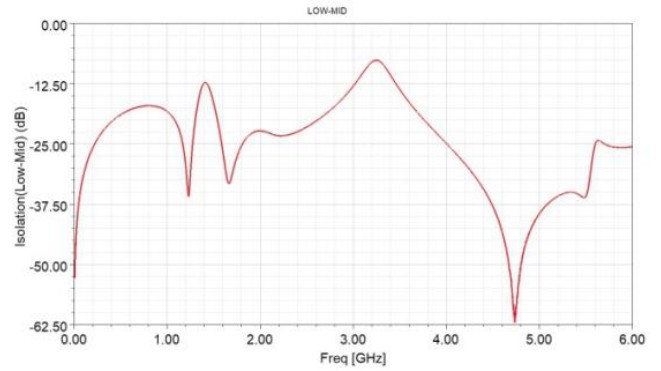
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典型频率特性 Frequency characteristics

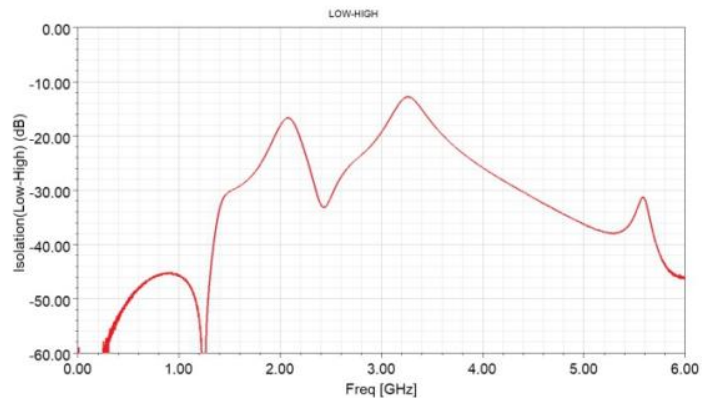
COMMON Return Loss



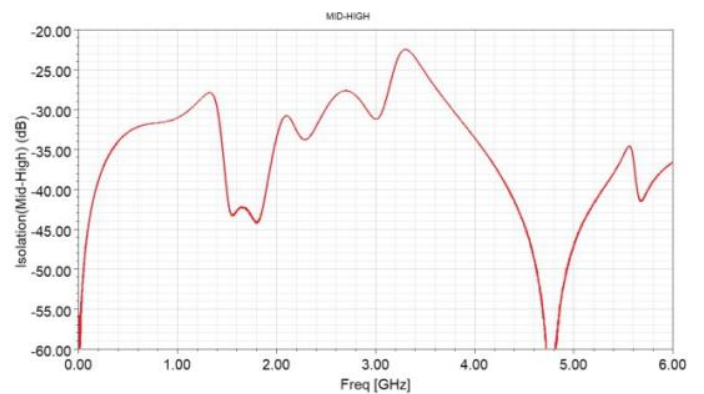
Isolation (Low-Mid)



Isolation (Low-High)



Isolation (Mid-High)



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