

Features

- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

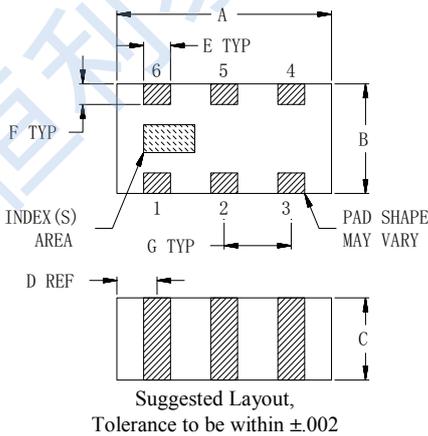
Applications

- Test and measurements.
- Telecommunications and broadband wireless system.
- Satcom modems.

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4,5,6

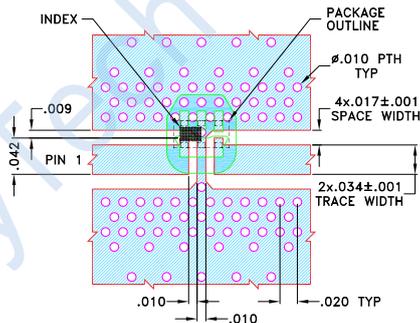
Outline Drawing



Outline Dimensions : inch mm

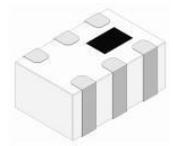
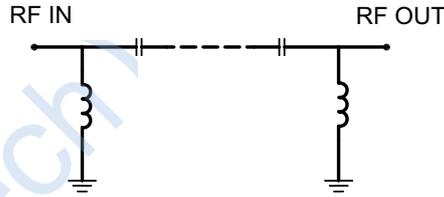
A	B	C	D	E	F	G	Wt.
.063	.032	.024	.012	.008	.006	.020	grams
1.60	0.80	0.60	0.30	0.20	0.15	0.50	.005

Suggested PCB Layout



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

Functional Schematic



50 Ω
7.2 to 20GHz

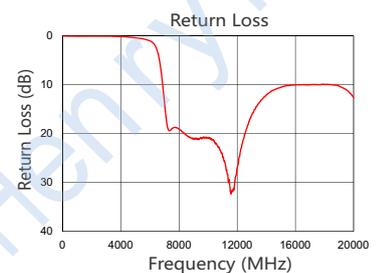
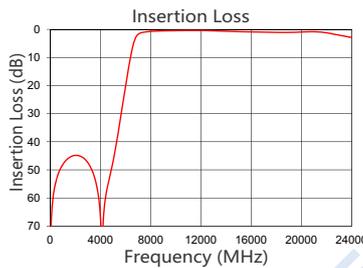
Electrical Specifications(1) at 25°C

Parameter		Frequency (GHz)	Min.	Typ.	Max.	Unit
Stopband	Rejection Loss	DC - 4.2	38	44	—	dB
	Freq. Cut-Off	4.2 - 5.2	25	42	—	
Passband	Insertion Loss	7.2 - 9.0	—	2.0	—	dB
		9.0 - 15	—	1.0	2	
		15 - 20	—	1.8	—	
	Return Loss	7.2 - 9.0	—	13	—	
		9.0 - 15	—	9	—	
		15 - 20	—	8	—	

1.In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	93.22	0.03
100	67.05	0.03
2000	44.86	0.07
4200	70.45	0.19
5200	42.36	0.47
5650	30.07	0.71
6000	20.26	1.03
6600	5.60	4.16
6800	2.96	7.98
7200	1.26	18.55
9000	0.55	21.04
12000	0.41	27.04
15000	0.81	10.53
17000	1.00	9.99
20000	0.96	12.58



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.

Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	2.5W at 25°C

*Permanent damage may occur if any of these limits are exceeded.

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