

Features

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

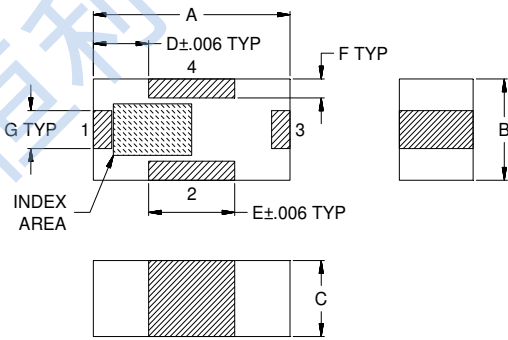
Applications

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

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

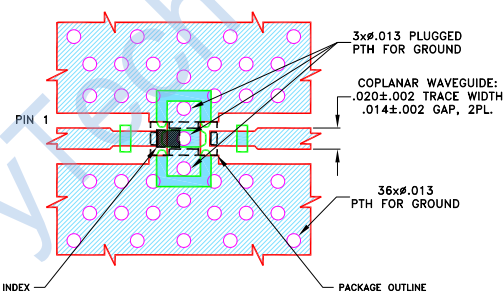


Suggested Layout,
Tolerance to be within ± 0.02

Outline Dimensions : inch mm

A	B	C	D	E	F	G	Wt.
.063	.032	.024	.018	.028	.008	.012	grams
1.60	0.80	0.60	0.45	0.70	0.20	0.30	.005

Suggested PCB Layout



- NOTES:**
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R04835 Lo Pro) WITH DIELECTRIC THICKNESS .0107 \pm .0010. 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 LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

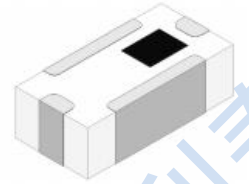
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50 Ω
DC to 5000MHz

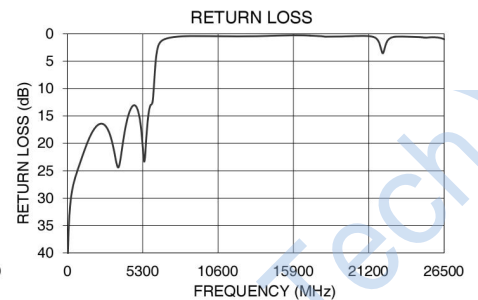
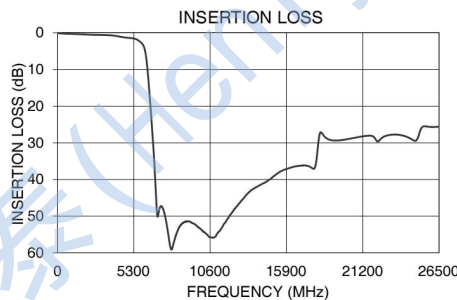


Electrical Specifications(1) at 25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units	
Passband	Insertion Loss	DC - 5.0	—	1.6	2.1	dB
	Freq. Cut-Off	5.75	—	3.0	—	dB
	Return Loss	DC - 5.0	—	13	—	dB
Stop Band	Rejection Loss	7.2 - 7.6	20	40	—	dB
		7.6 - 11	30	43	—	
		11 - 16	25	34	—	
		16 - 26.5	—	15	—	

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

Typical Performance Data at 25°C



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.