

LTCC 低通滤波器 (Low Pass Filter)

HT-LFCG-3700+

Features

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

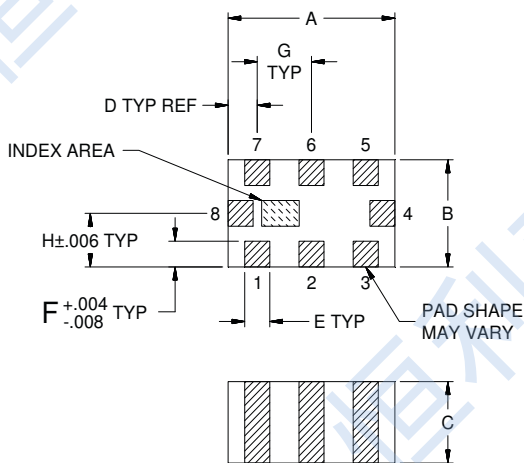
Applications

- Test and measurement
- Telecommunications & broadband wireless applications
- Public safety communication
- Satcom modems

Pad Connections

RF IN	8
RF OUT	4
GROUND	1,2,3,5,6,7

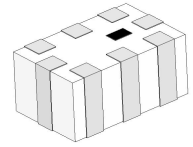
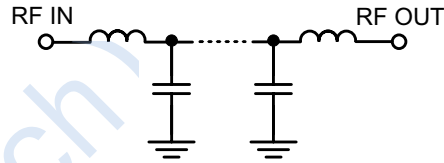
Outline Drawing



Outline Dimensions : inch mm

A	B	C	D	E	F	G	Wt.
.079	.049	.037	.014	.012	.012	.026	grams
2.00	1.25	0.95	0.35	0.30	0.30	0.65	.008

Functional Schematic



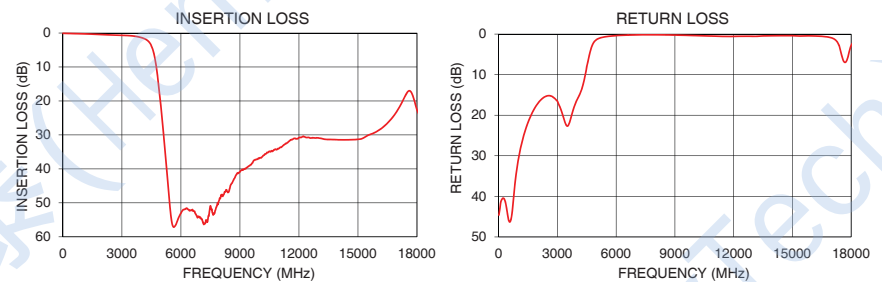
50 Ω
DC to 3700MHz

Electrical Specifications(1) at 25°C

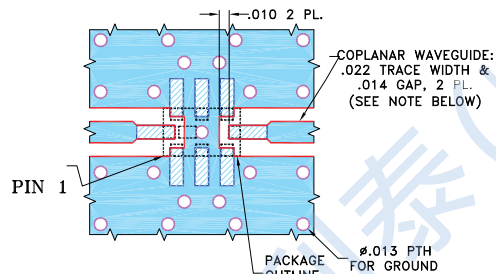
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Freq. Cut-Off	4360	—	3.0	—
	Return Loss	DC-3700	—	13	dB
	Insertion Loss	DC-3700	—	1.3	dB
Stop Band	Rejection Loss	5500-6100	20	43	dB
		6100-8200	35	44	dB
		8200-10000	25	37	dB
		10000-18000	—	17	dB

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

Typical Performance Data at 25°C



Suggested PCB Layout



NOTES:

1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" $\pm$.001". 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 SOLDER MASK.

Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	4.5W at 25°C

*Passband rating, derate linearly to 1W at 125°C ambient. Permanent damage may occur if any of these limits are exceeded.