成都恒利泰科技有限公司
Chengdu HenryTech Technology co., Ltd

LTCC 低通滤波器（Low Pass Filter） HT-LFCG-2750+

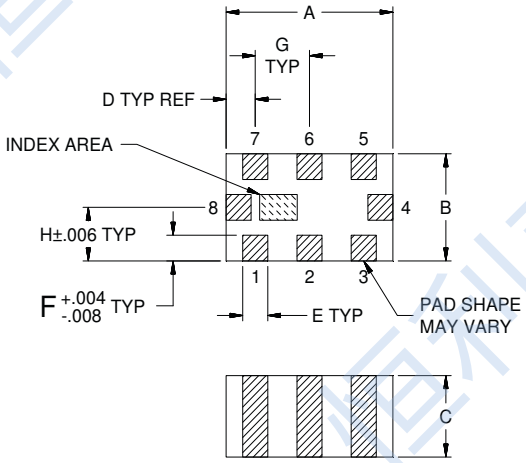
Features
- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

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

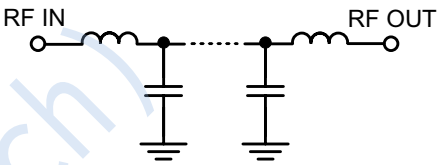
Outline Drawing

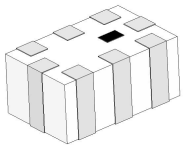


Outline Dimensions : inch / mm

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





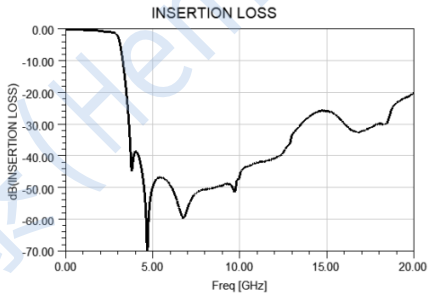
50Ω
DC to 2750MHz

Electrical Specifications(1) at 25°C

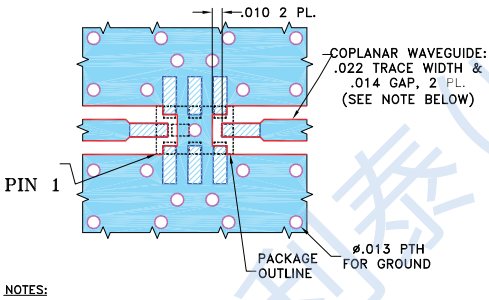
Parameter		Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	DC-2750	—	1.2	2.0	dB
	Freq. Cut-Off	3040	—	3.0	—	dB
	Return Loss	DC-2750	—	16	—	dB
Stop Band	Rejection Loss	4000-4350	20	50	—	dB
		4350-7200	38	50	—	dB
		7200-10000	—	30	—	dB
		10000-16000	—	25	—	dB

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" ± .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*	3.5W at 25°C

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

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