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-1000+

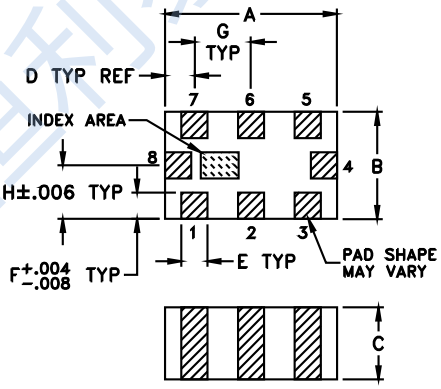
Features
- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

Applications
- Test and measurement
- Telecommunications & broadband wireless applications
- Harmonic Rejection
- VHF/UHF transmitters / receivers

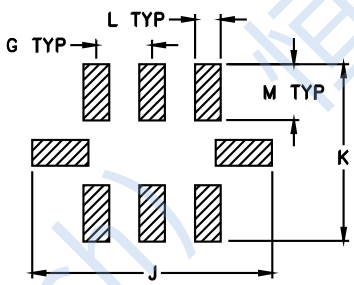
Pad Connections

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

Outline Drawing



PCB Land Pattern



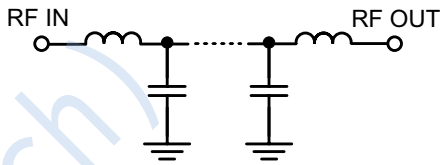
Suggested Layout,
Tolerance to be within .002

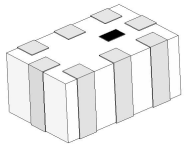
Outline Dimensions : inch / mm

A	B	C	D	E	F	G
.079	.049	.037	.014	.012	.012	.026
2.01	1.24	0.94	0.36	0.30	0.30	0.66

H	J	K	L	M	wt grams
.025	.134	.104	.014	.039	.008
0.64	3.40	2.64	0.36	0.99	

Functional Schematic





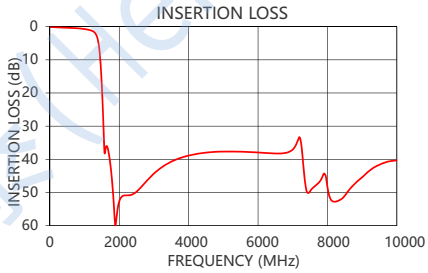
50 Ω
DC to 1000MHz

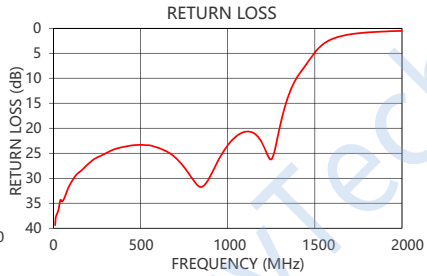
Electrical Specifications(1) at 25°C

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Freq. Cut-Off	1370	—	3.0	—	dB
	Return Loss	DC-1000	—	13	—	dB
	Insertion Loss	DC-1000	—	—	1.8	dB
Stop Band	Rejection Loss	1550-1900	20	30	—	dB
		1900-3000	35	45	—	dB
		3000-6000	30	35	—	dB
		6000-10000	—	30	—	dB

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

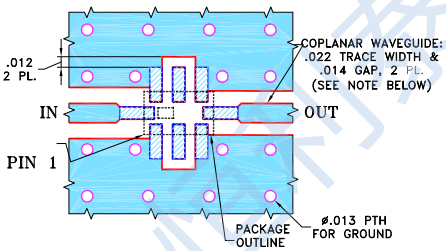
Typical Performance Data at 25°C





Notes
a. The specifications are tested at 25℃±5℃, relative humidity 55~75%.
b. Other quality and characteristic not specify in this datasheet.

Suggested PCB Layout



NOTES:
1. COPLANAR WAVEGIDE 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*	5.5W at 25°C

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

Tel: +86-28-85589664
E-mail: mr_li@henglitaitech.com
Web: www.hltchips.com
Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuixi Road, Jinniu District, Chengdu City