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

LTCC 高通滤波器（High Pass Filter） HT-HFCN-1810+

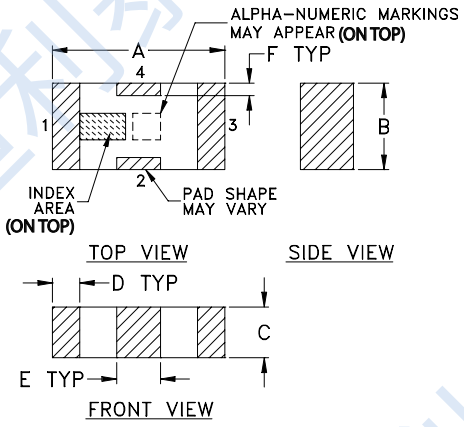
Features
- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

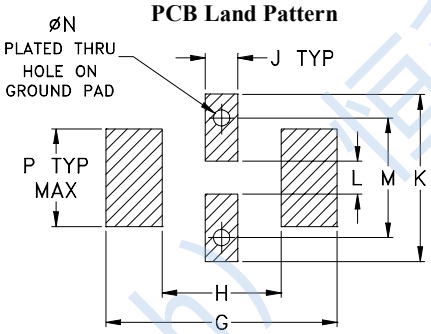
Applications
- Sub-harmonic rejection.
- Transmitters/receivers.
- Lab use.

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing





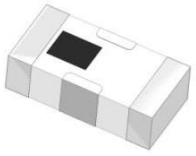
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions： inch / mm

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

Functional Schematic



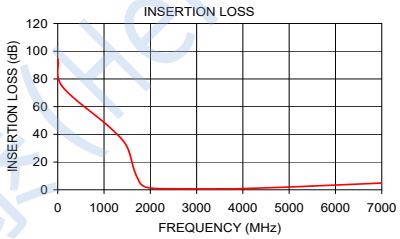
50 Ω
1950MHz to 4750MHz

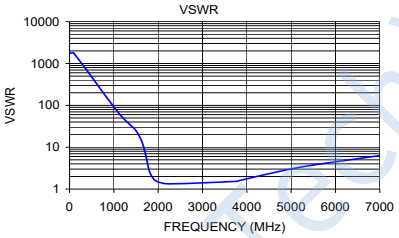
Electrical Specifications(1,2) at 25°C

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Units
Pass Band	Insertion Loss	2250-3850	—	—	1.3	dB
		1950-4750	—	—	2.0	
	VSWR	2250-3750	—	1.5	—	: 1
Stop Band	Rejection Loss	1100	40	—	—	dB
		1480	20	—	—	
	Freq. Cut-Off	1810	—	3.0	—	dB
	VSWR	1100-1480	—	20	—	: 1

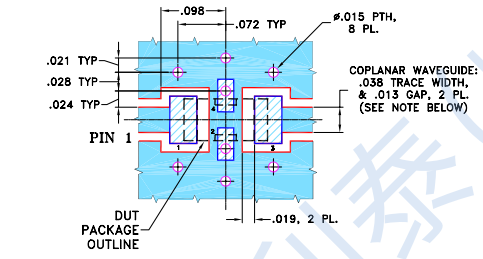
1.In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25°C





Suggested PCB Layout



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & 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*	7W at 25°C

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

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