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

LTCC 带通滤波器（Bandpass Filter） HT-BFCN-3700+

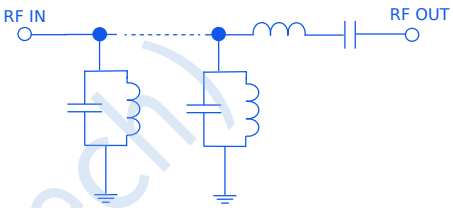
Features

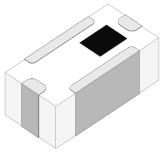
- Small size
- Temperature stable
- Hermetically sealed
- LTCC construction

Applications

- Harmonic Rejection
- Transmitters / Receivers
- Test and Measurement

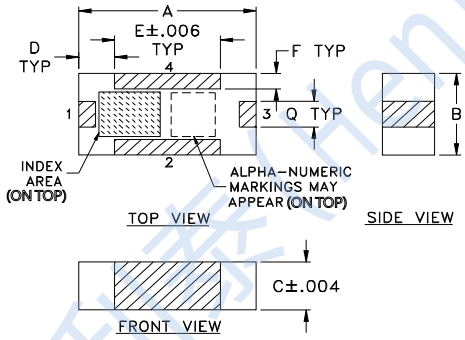
Functional Schematic



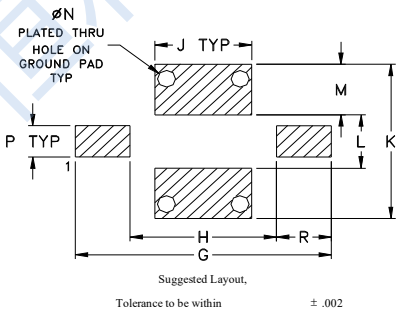


50 Ω
3000MHz to 4600MHz

Outline Drawing



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± .002

Electrical Specifications(1,2) at 25°C

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	3000 - 4600	—	3700	3.5	MHz
	Insertion Loss	3000 - 4600	—	1.9		dB
	VSWR			2.26		:1
Stop Band, Lower	Insertion Loss	2100	21	28	—	dB
	VSWR	2100		23	—	:1
Stop Band, Upper	Insertion Loss	5600 - 8000	10	24	—	dB
	VSWR	5600 - 8000		16	—	:1

Pad Connections

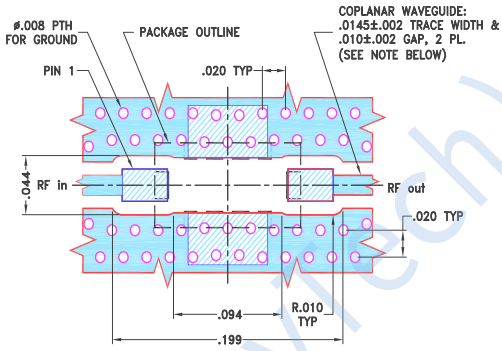
Input	1
Output	3
Ground	2, 4

Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	2W max at 25°C

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

Suggested PCB Layout



NOTES:
1. TRACE WIDTH PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .0066"±.0007", 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.

Outline Dimensions

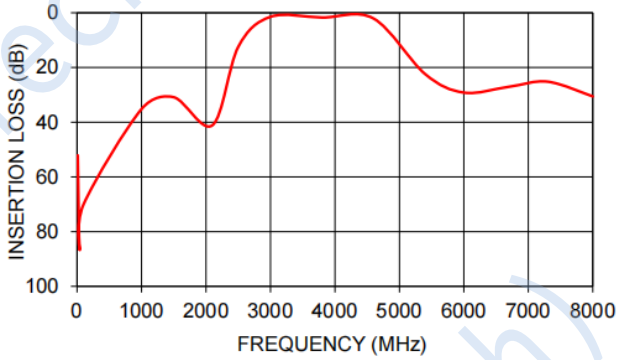
inch
mm

A	B	C	D	E	F	G	H	J
.126	.063	.037	.026	.075	.012	.182	.104	.069
3.20	1.60	0.94	0.66	1.91	0.30	4.62	2.64	1.75

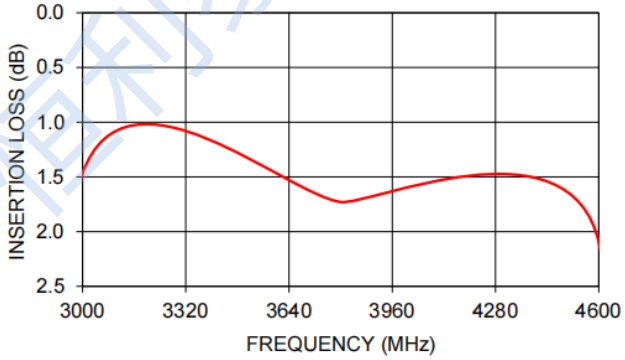
K	L	M	N	P	Q	R		wt
.119	.041	.039	.013	.024	.020	.039		grams
3.02	1.04	0.99	0.33	0.61	0.51	0.99		.020

Typical Performance Data at 25°C

INSERTION LOSS (Full Band)



INSERTION LOSS (Pass Band)



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

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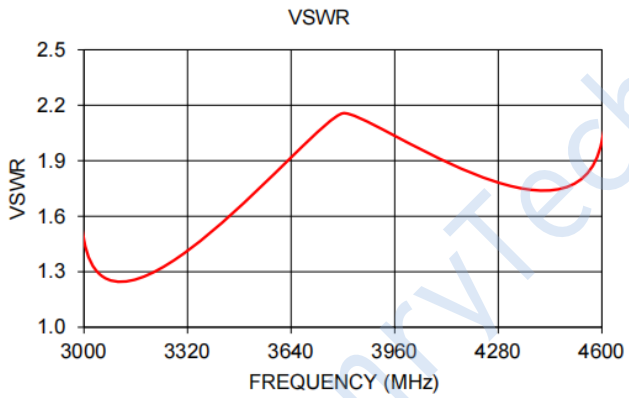
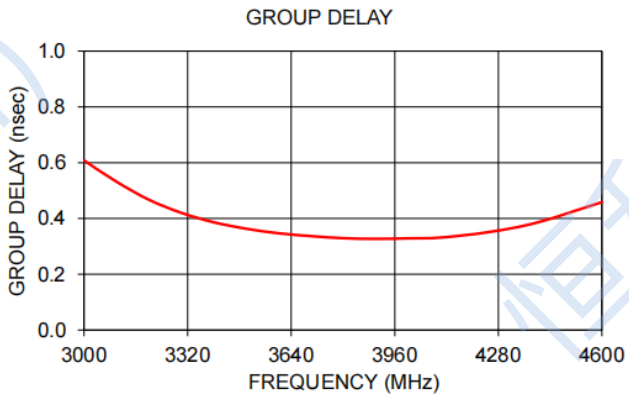
Typical Performance Data at 25°C





Tel: +86-28-85589664
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Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuixi Road, Jinniu District, Chengdu City