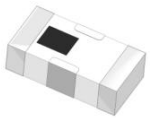
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

Low Pass Filter

JY-LFCN-575+

Features
- excellent power handling
- small size
- 7 sections
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications
- harmonic rejection
- VHF/UHF transmitters/receivers
- Base Station of Mobile Communication、lab use.



Generic photo used for illustration purposes only

50Ω DC to 575 MHz

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-575	-	-	1.2	dB
	Freq.Cut-Off	770	-	3.0	-	dB
	VSWR	DC-575	-	1.2	-	:1
Stop Band	Rejection Loss	900	20	-	-	dB
		1050-3200	-	40	-	dB
		5500	-	20	-	dB
	VSWR	900-5500	-	20	-	:1

Maximum Ratings

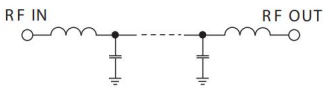
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C

* Passband rating, derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

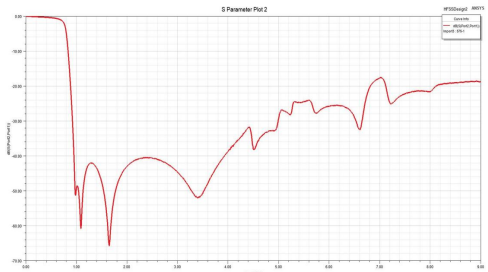
Typical Performance Data
(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

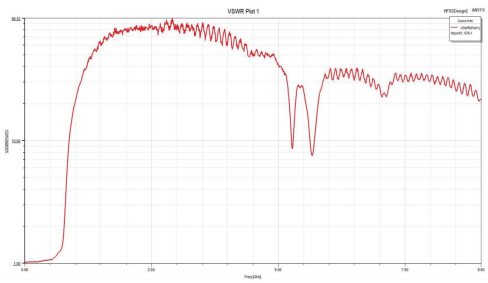
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.02	1.03
100	0.13	1.03
575	0.60	1.10
770	2.84	1.84
900	24.21	12.36
1050	51.47	25.64
1215	43.25	38.43
1500	47.58	60.00
1915	44.45	78.00
2200	40.98	84.86
2500	40.64	86.17
3200	48.16	83.78
4000	38.70	61.27
4970	31.32	43.43
5500	24.42	25.21

Electrical Schematic

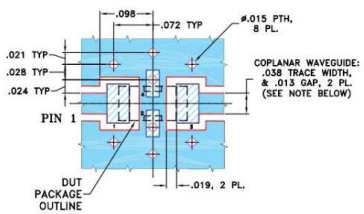


Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4





Suggested PCB Layout

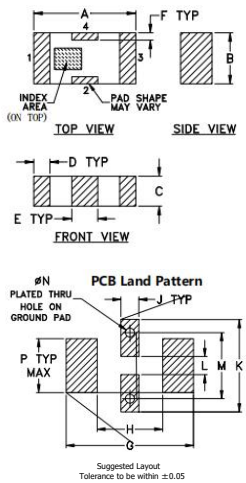


NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Outline Drawing



Outline Dimensions：Unit (mm)					
A	3.20	B	1.60	C	0.94
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.80	wt	0.02g

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