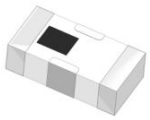
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

Low Pass Filter

JY-LFCN-2850+



Generic photo used for illustration purposes only

50 Ω DC to 2800 MHz

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.

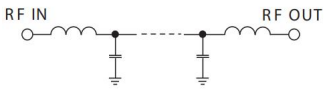
Maximum Ratings	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C

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

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-2800	-	-	1.2	dB
	Freq. Cut-Off	3230	-	3.0	-	dB
	VSWR	DC-2800	-	1.2	-	:1
Stop Band	Rejection Loss	4000	25	-	-	dB
		4200-7400	-	30	-	dB
		9000	-	25	-	dB
	VSWR	4000-9000	-	20	-	:1

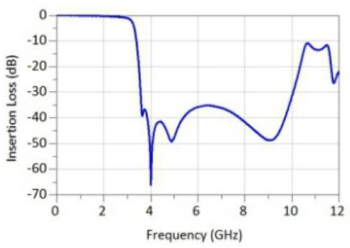
Electrical Schematic

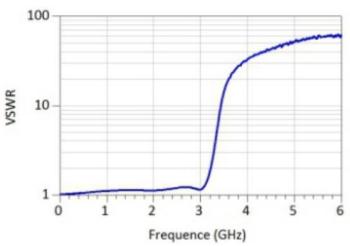


Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4

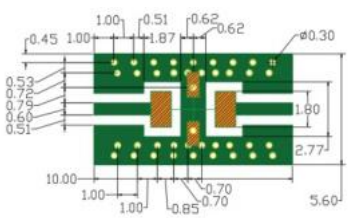
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.02	1.00
500	0.12	1.05
1300	0.24	1.12
2100	0.40	1.12
2800	0.82	1.21
3150	1.89	1.49
3775	37.14	26.51
3900	43.66	30.54
4400	41.49	41.61
5600	37.83	58.97
6400	25.25	58.88
6800	35.69	57.21
7800	40.21	52.07
8400	44.70	49.62
9000	48.60	46.50





Suggested PCB Layout

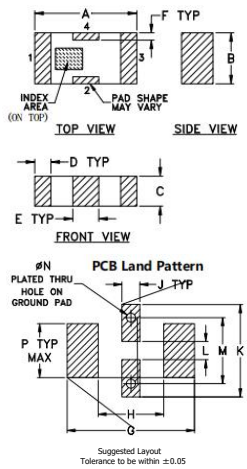


NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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	0.95
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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