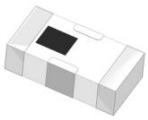
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

Low Pass Filter

JY-LFCN-2000+



Generic photo used for illustration purposes only

50Ω DC to 2000 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.

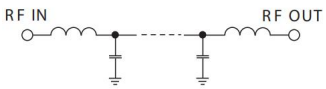
Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-2000	-	0.8	1.1	dB
	Freq.Cut-Off	2425	-	3.0	-	dB
	VSWR	DC-2000	-	1.5	1.8	:1
Stop Band	Rejection Loss	2850	25	30	-	dB
		3000-6000	25	35	-	dB
		7200	20	30	-	dB
	VSWR	2850-7200	-	20	-	:1

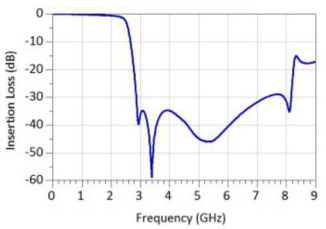
Typical Performance Data at 25°C

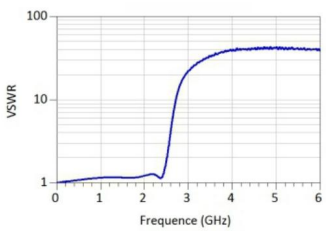
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.07	1.01
500	0.15	1.13
1000	0.24	1.18
1500	0.33	1.08
2000	0.67	1.26
2250	1.06	1.19
2575	9.64	6.76
2850	39.45	14.81
4250	40.28	27.72
5000	45.21	38.91
6500	37.17	55.43
7200	34.53	40.59
8000	26.73	36.95
9000	14.79	21.10
		12.18

Electrical Schematic

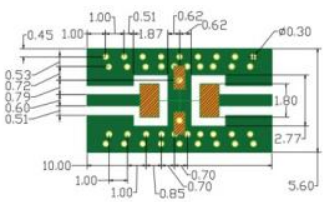


Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4





Suggested PCB Layout

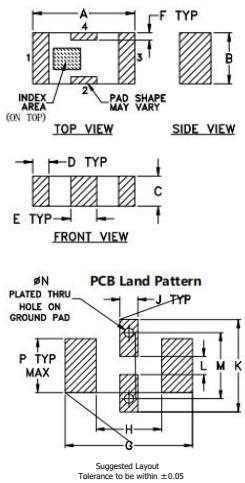


NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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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