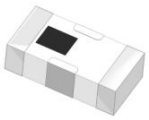
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

Low Pass Filter

JY-LFCN-2400+



Generic photo used for illustration purposes only

50Ω DC to 2400 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

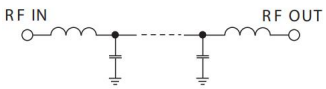
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C

* 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-2400	-	0.9	1.2	dB
	Freq.Cut-Off	2620	-	3.0	-	dB
	VSWR	DC-2500	-	1.2	1.5	:1
Stop Band	Rejection Loss	3560	25	30	-	dB
		3800-6100	25	35	-	dB
		8000	20	30	-	dB
	VSWR	3600-8000	-	20	-	:1

Electrical Schematic

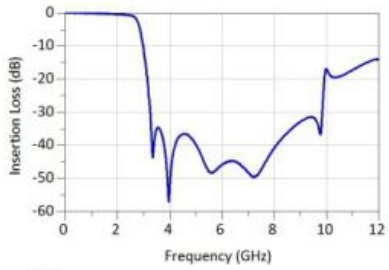


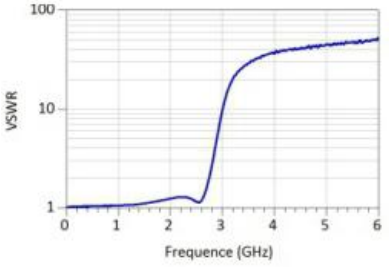
Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

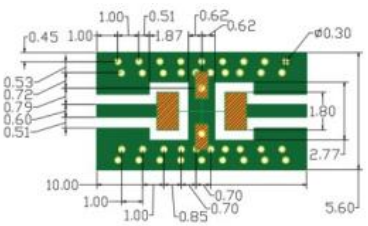
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.04	1.01
500	0.15	1.03
1000	0.24	1.03
2000	0.73	1.48
2500	1.16	1.31
3050	31.05	19.62
3500	38.32	31.55
3600	46.01	33.32
4000	37.30	38.96
5000	45.67	39.83
6000	37.42	29.90
7000	39.65	28.41
8000	50.38	29.70
9000	44.61	24.80
10000	15.71	15.46





Suggested PCB Layout

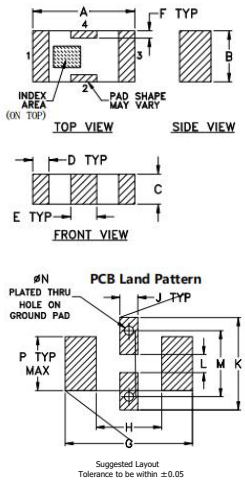


NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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

JY-LFCN-2400+

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