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

Low Pass Filter

JY-LFCN-225+

Features
- excellent power handling
- small size
- 7 sections
- temperature stable
- LTCC construction

Applications
- harmonic rejection
- VHF/UHF transmitters/receivers



Generic photo used for illustration purposes only

50Ω DC to 225 MHz

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-225	-	-	1.0	dB
	Freq.Cut-Off	350	-	3.0	-	dB
	VSWR	DC-225	-	1.2	-	:1
Stop Band	Rejection Loss	460	20	-	-	dB
		510-2500	-	40	-	dB
		5500	-	20	-	dB
	VSWR	460-5500	-	17	-	:1

Maximum Ratings

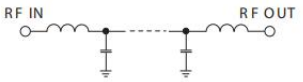
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C

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

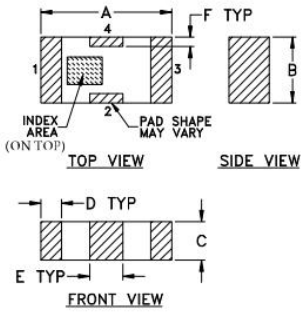
Typical Performance Data at 25°C

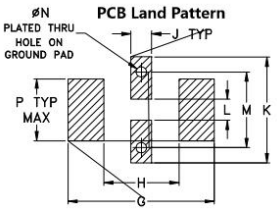
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.12	1.03
100	0.32	1.02
225	0.74	1.16
240	0.83	1.19
425	21.57	10.78
450	32.98	11.98
460	62.62	12.16
495	32.08	12.52
510	31.97	12.56
610	48.51	13.12
900	39.76	25.24
1400	39.84	52.14
2500	40.77	66.83
3220	52.29	77.73
5500	27.81	56.03

Electrical Schematic

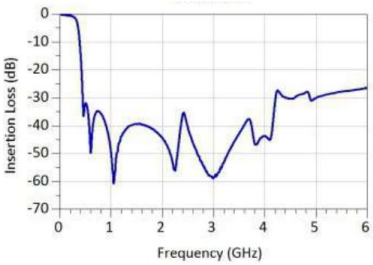


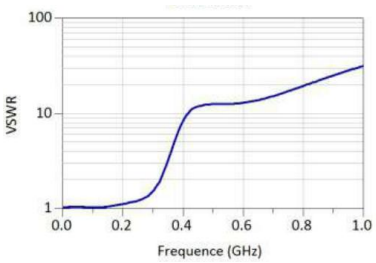
Outline Drawing



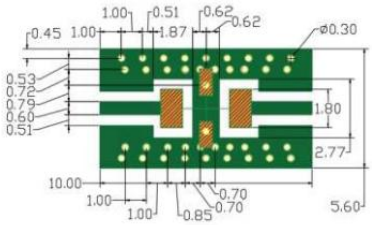


Suggested Layout
Tolerance to be within ±0.05





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 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

JY-LFCN-225+

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