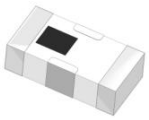
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

Low Pass Filter

JY-LFCN-1325+



Generic photo used for illustration purposes only

50Ω DC to1325 MHz

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

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

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-1325	-	0.8	1.0	dB
	Freq.Cut-Off	1590	-	3.0	-	dB
	VSWR	DC-1325	-	1.2	1.5	:1
Stop Band	Rejection Loss	2100	25	30	-	dB
		2200	30	35	-	dB
		4250	25	28	-	dB
	VSWR	2100-4250	-	20	-	:1

Typical Performance Data at 25°C

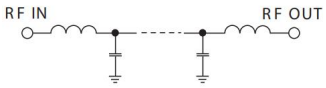
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.06	1.02
500	0.24	1.20
750	0.35	1.23
1200	0.62	1.06
1320	0.83	1.12
1500	2.00	1.39
2000	36.73	36.07
2270	38.40	46.71
2570	39.40	55.64
3024	37.64	60.94
4042	29.20	71.07
5000	32.09	68.75
6000	36.27	53.14
7000	25.21	46.76
8000	26.39	48.58

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C

* Passband rating, derate linearly to 43.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

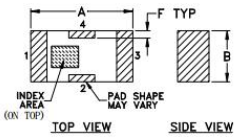
Electrical Schematic

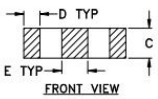


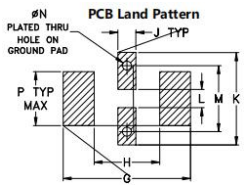
Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

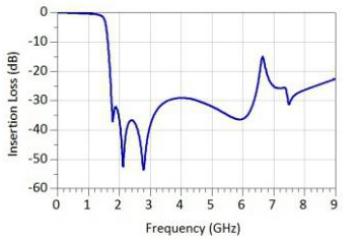


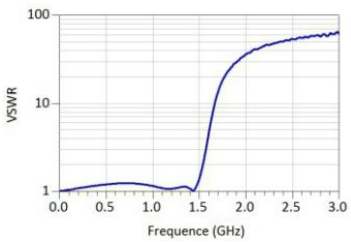




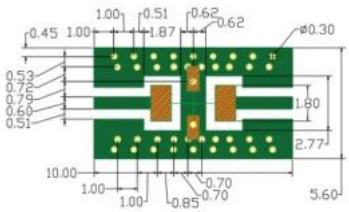
Suggested Layout
Tolerance to be within ±0.05

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





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

JY-LFCN-1325+

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