

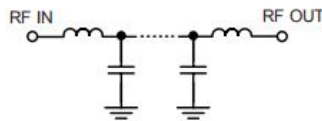
Features

- Extremely small size
- Low loss
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications

- Test and measurements
- Telecommunications & broadband wireless applications

Functional Schematic



JY-LFCG-4400+



50Ω DC to 4400 MHz

Pad Connections

INPUT	8
OUTPUT	4
GROUND	1,2,3,5,6,7

Maximum Ratings

Operating Temperature	-55°C to 125°C
Storage Temperature	-55°C to 125°C
RF Power Input*	4.5 W max.@25°C

Permanent damage may occur if any of these limits are exceeded.

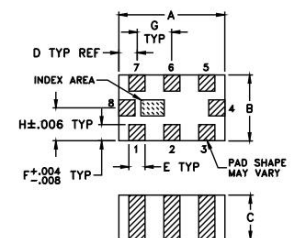
Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-4400	-	1.6	2.1	dB
	Freq.Cut-Off	5200	-	3.0	-	dB
	Return Loss	DC-4400	-	11	-	dB
Stop Band	Rejection Loss	6200-6700	20	40	-	dB
		6700-8800	35	45	-	dB
		8800-12200	25	33	-	dB
		12200-18000	-	20	-	dB

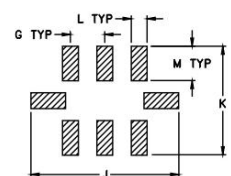
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	0.07	47.29
100	0.11	42.69
1000	0.23	34.16
2000	0.41	19.04
3000	0.60	16.50
4000	0.90	16.31
4400	1.31	11.25
5200	2.29	19.20
5350	3.26	14.25
5580	10.04	4.24
5750	20.40	1.83
5900	30.37	1.19
6200	54.37	0.68
6700	55.70	0.31
7200	50.37	0.20
8000	50.02	0.06
8800	49.50	0.11
12200	32.49	0.94
14000	35.23	0.73
18000	36.11	0.75

Outline Drawing



PCB Land Pattern



Suggested Layout, Toleranc e to be within 0.02

Outline Dimensions: Unit (mm)

A	2.00	E	0.30
B	1.25	F	0.30
C	0.95	G	0.65
H	0.64	J	3.40
K	2.64	L	0.36
M	0.99	wt	0.008g

Suggested PCB Layout

