



Bandpass Filter

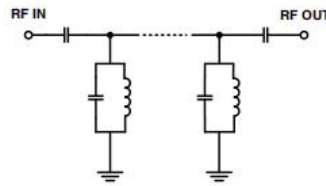
Features

- Low insertion loss, 1 dB typ.
- High rejection, 60 dB typ.
- Miniature shielded package

Applications

- Public mobile
- Private land mobile

Functional Schematic



JY-CBP4-836C+



Generic photo used for illustration purposes only
50Ω 824 to 849 MHz

Maximum Ratings

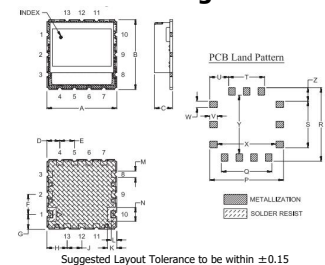
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	5 W max @ 25°C

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

Pin Connections

INPUT	1
OUTPUT	10
GROUND	2,3,4,5,6,7,8,9,11,12,13

Outline Drawing

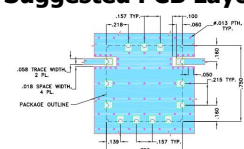


Suggested Layout Tolerance to be within ±0.15

Outline Dimensions: Unit (mm)

A	19.05	B	19.05
C	5.33	D	3.53
E	3.99	F	5.46
G	4.06	H	5.54
J	3.99	K	2.54
L	1.52	M	1.75
N	3.78	P	20.07
Q	13.74	R	20.07
S	12.67	T	9.75
U	5.16	V	2.03
W	1.75	X	16.00
Y	16.00	Z	3.68
wt	4.6g		

Suggested PCB Layout



NOTES:
1. TRACE WIDTH IS SHOWN FOR OAK (DAK-802) WITH DIELECTRIC THICKNESS 0.0015".
2. ADD "PLATE" COPPER 1/2 OZ PER SQ INCH.
3. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
4. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
5. DENOTES PCB COPPER LAYOUT WITH SOLDER (SOLDER MASK OVER BARE COPPER)
6. DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	836	-	MHz
	Insertion Loss	824-849	-	1.0	1.7	dB
	VSWR	824-849	-	1.29	1.67	:1
Stop Band, Lower	Insertion Loss	DC-600	65	75	-	dB
		600-760	20	26	-	dB
Stop Band, Upper	Insertion Loss	915-1080	20	27	-	dB
		1080-1600	48	60	-	dB

