

Bandpass Filter

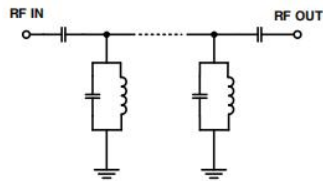
Features

- Good rejection
- Low passband insertion loss
- Miniature shielded package
- Narrow band

Applications

- Aviation /Aeronautical
- Specialized Mobile Radio service
- Private and Public Land Mobile
- Public Safety Communication

Functional Schematic



JY-CBP-897G+



Generic photo used for illustration purposes only
50Ω 887 to 907 MHz

Maximum Ratings

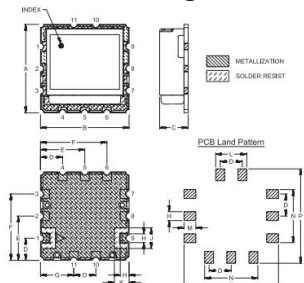
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max @ 25°C

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

Pin Connections

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

Outline Drawing

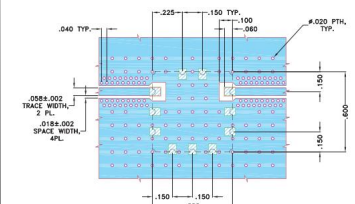


Suggested Layout Tolerance to be within ± 0.15

Outline Dimensions: Unit (mm)

A	15.24	B	15.24
C	5.33	D	3.81
E	7.62	F	11.43
G	5.72	H	1.52
J	3.56	K	2.54
L	5.33	M	2.03
N	9.14	P	16.26
wt	2.6g		

Suggested PCB Layout



- NOTES:
1. TRACE WIDTH IS SHOWN FOR OAK (OAK-602) WITH DIELECTRIC THICKNESS .0028".0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH 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 SOLDERMASK

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	897	-	MHz
	Insertion Loss	887-907	-	1.8	2.8	dB
	VSWR	887-907	-	1.4	2.3	:1
Stop Band, Lower	Insertion Loss	DC-850	20	25.9	-	dB
	VSWR	DC-850	-	20	-	:1
Stop Band, Upper	Insertion Loss	945-2000	20	24.9	-	dB
	VSWR	945-2000	-	20	-	:1

