

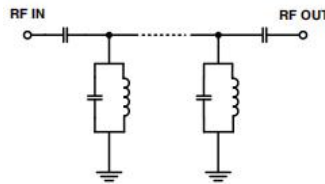
Features

- Low insertion loss
- High selectivity
- Miniature shielded package

Applications

- Traffic collision avoidance system (TCAS)
- Aeronautical radio navigation
- Fixed satellite
- Radio astronomy
- Radar and navigation system

Functional Schematic



JY-CBP-1034C+



Generic photo used for illustration purposes only
50Ω 978 to 1090 MHz

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	1034	-	MHz
	Insertion Loss	978-1090	-	0.6	2	dB
	VSWR	978-1090	-	1.2	-	:1
Stop Band, Lower	Insertion Loss	DC-790	20	30	-	dB
	VSWR	DC-790	-	20	-	:1
Stop Band, Upper	Insertion Loss	1400-2000	20	30	-	dB
	VSWR	1400-2000	-	20	-	:1

Maximum Ratings

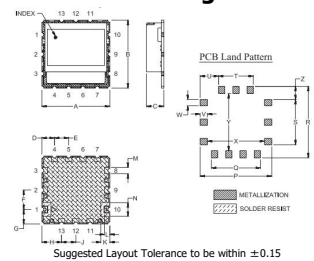
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	5W max @ 25°C

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

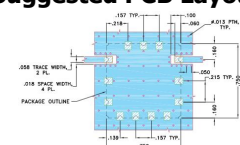
Outline Drawing



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 (OAK-602) WITH DIELECTRIC THICKNESS 0.025" (0.635mm). COPPER 1/2 OZ (15.88g) PER SQ. FT. (0.037g/cm²).
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. DENOTES PCB COPPER LAYOUT WITH SMDs (SOLDER MASK OVER BARE COPPER)
4. DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK