



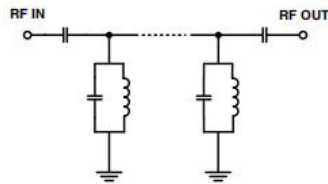
Features

- 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-1250C+



Generic photo used for illustration purposes only
50Ω 1215 to 1285 MHz

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

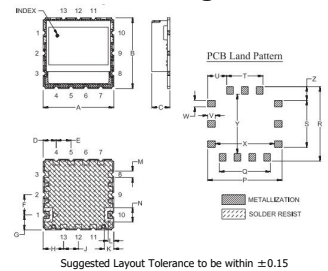
RF Power Input* 5 W max @ 25°C

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

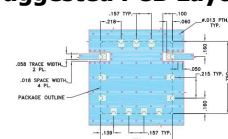


Suggested Layout Tolerance to be within ±0.15

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 0.016" (418-002) WITH DIELECTRIC THICKNESS 0.001" (25.4μm). OTHERS 1/32" (0.762mm) SHALL BE USED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

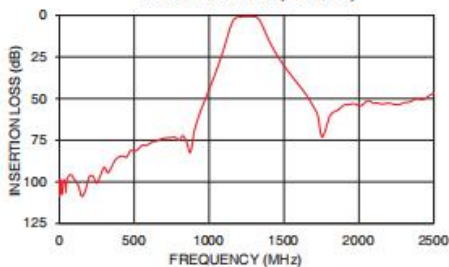
■ DENOTES PCB COPPER LAYOUT WITH (SMD) (SOLDER MASK OVER BARE COPPER)

■ DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

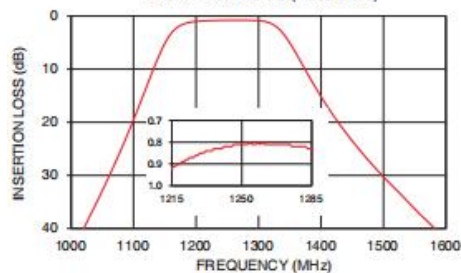
Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	1250	-	MHz
	Insertion Loss	1215-1285	-	0.8	2	dB
	VSWR	1215-1285	-	1.2	-	:1
Stop Band, Lower	Insertion Loss	DC-1055	20	30	-	dB
	VSWR	DC-1055	-	20	-	:1
Stop Band, Upper	Insertion Loss	1510-2500	20	30	-	dB
	VSWR	1510-2500	-	20	-	:1

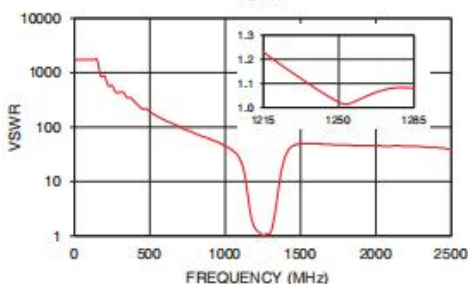
INSERTION LOSS (Full band)



INSERTION LOSS (Pass band)



VSWR



GROUP DELAY

