

Features

- Low insertion loss
- Good VSWR
- Miniature shielded package

Applications

- Aviation
- Communication systems



HT-BPF-C4R5+

50Ω 2 to 7 MHz

Electrical Specifications at 25°C

Parameter	F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band						
Center Frequency	-	-	-	4.5	-	MHz
Insertion Loss	F1-F2	2-7	-	0.5	1.5	dB
VSWR	F1-F2	2-7	-	1.1	1.5	:1
Stop Band, Lower						
Insertion Loss	DC-F3	DC-0.6	20	35.9	-	dB
VSWR	DC-F3	DC-0.6	-	20	-	:1
Stop Band, Upper						
Insertion Loss	F4-F5	17-2100	20	28.9	-	dB
VSWR	F4-F5	17-2100	-	20	-	:1

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

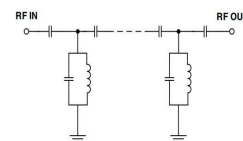
RF Power Input 1 W max.

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

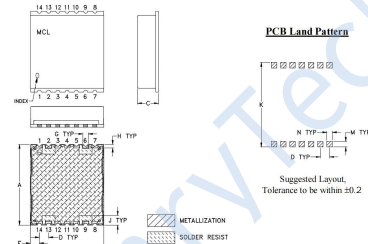
Pad Connections

INPUT	2
OUTPUT	9
NOT CONNECTED	6 & 13
GROUND	1,3,4,5,7,8,10,11,12,14

Functional Schematic



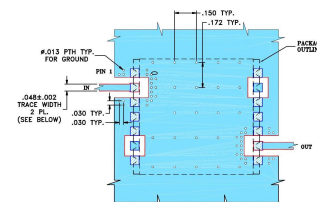
Outline Drawing



Outline Dimensions(mm)

A	B	C	D	E	G
22.10	20.32	6.35	2.54	2.46	1.52
H	J	K	M	N	wt
1.02	2.67	23.11	1.52	1.52	2.85g

Suggested PCB Layout



NOTES:
1. TRACE WIDTHS IN GREEN FOR ROUGH BOARD.
2. COUPLER: MINIMUM: 0.15mm (6 MIL).
3. COUPLER: 1.5mm (60 MIL) MIN.
4. FOR OTHER MATERIALS TRACE WIDTHS MAY NEED TO BE MODIFIED.
5. BOTTOM SIDE OF THIS PCB IS CONTINUOUS GROUND PLANE.
6. DENOTES PCB COPPER LAYOUT WITH SOLDER (SOLDER MASK OVER BARE COPPER).
7. DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK.