



Bandpass Filter

Features

- Wide bandwidth
- Rejection upto 2xF
- Miniature shielded package

Applications

- Radio telescope applications
- Public cellular networks
- International mobile telecommunication
- Weather instruments / Radar / Satellite
- Transmitters / Receivers
- Harmonic rejection / Industrial applications

Functional Schematic



JY-BPF-BD1800+



50Ω 1600 to 2000 MHz

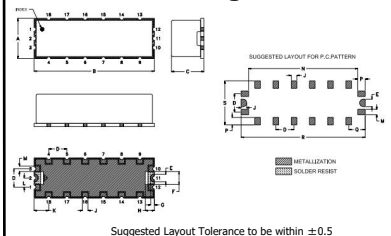
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W max @ 25°C
Permanent damage may occur if any of these limits are exceeded.	

Pad Connections

INPUT	2
OUTPUT	11
GROUND	1, 3-10, 12-18

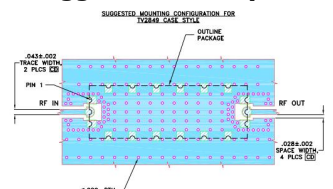
Outline Drawing



Outline Dimensions: Unit (mm)

A	11.00	K	4.00
B	33.00	L	2.50
C	8.89	M	1.48
D	5.00	N	29.95
E	2.02	P	2.03
F	3.56	Q	4.51
G	1.02	R	34.02
H	2.54	S	12.02
J	1.52		
WT	4g		

Suggested PCB Layout



NOTES:

1. TRACE WIDTH IS SHOWN FOR ROGERS (RO4350B) WITH DIELECTRIC THICKNESS .020" ± .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 SOLDER (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	-	-	1800	-	MHz
	Insertion Loss	1600-2000	-	1.7	3.0	dB
	VSWR	1600-2000	-	1.67	2.0	:1
Stop Band, Lower	Rejection	DC-1000	50	60	-	dB
		1000-1400	20	25	-	dB
Stop Band, Upper	Rejection	2200-2400	20	25	-	dB
		2400-4000	35	45	-	dB

