

Ceramic

# Bandpass Filter

50Ω 3400 to 3850 MHz

**BFCV-3641+**



Generic photo used for illustration purposes only

CASE STYLE: JV1210C-2

**Features**

- small size
- temperature stable
- hermetically sealed
- LTCC construction
- excellent stopband rejection (usable to 12 GHz, 20 dB typ.)

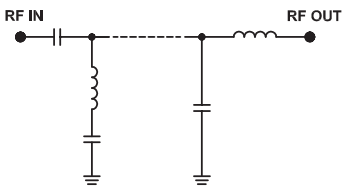
**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

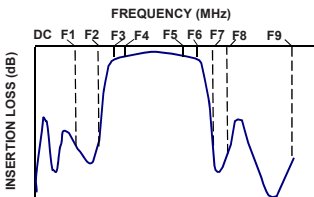
**Applications**

- software defined radio
- WLAN
- cellular network

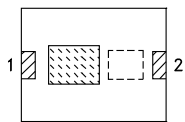
**Functional Schematic**



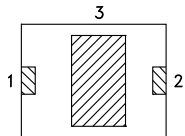
**Typical Frequency Response**



**TOP VIEW**



**BOTTOM VIEW**



**Pad Connections**

Input	1
Output	2
Ground	3

**Electrical Specifications<sup>(1,2)</sup> at 25°C**

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
<b>Pass Band</b>	Center Frequency	—	—	3636	—	MHz	
	Insertion Loss	F3-F6	3400-3850	—	1.9	3.5	dB
		F4-F5	3600-3800	—	1.6	—	dB
<b>Stop Band, Lower</b>	VSWR	F3-F6	3400-3850	—	1.7	—	:1
	Insertion Loss	DC-F1	DC-2670	26	35	—	dB
		F2	2930	—	20	—	dB
<b>Stop Band, Upper</b>	VSWR	DC-F1	DC-2670	—	20	—	:1
	Insertion Loss	F7	4650	—	20	—	dB
		F8-F9	5350-9600	30	35	—	dB
		F8-F9	5350-9600	—	20	—	:1

(1) Measured on Mini-Circuits Characterization Test Board TB-980+

(2) This filter is not intended for use as a DC Blocking circuit element. In application where DC voltage is present at either input or output ports, blocking capacitors are required at the corresponding RF port.

**Maximum Ratings**

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	0.5W max @

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

**Typical Performance Data at 25°C**

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100	52.86	876.08
500	39.78	235.50
1000	38.14	74.48
2000	38.83	71.53
3400	1.74	1.44
3600	1.45	1.05
3800	1.57	1.23
3900	1.83	1.57
4600	17.86	19.72
5300	42.92	22.23
7000	41.47	45.89
9600	35.24	502.48
11000	25.28	93.97
12000	27.47	138.85
13000	13.31	14.68

