

## WiFi Bandpass Filters 2.4 GHz 802.11b and 802.11g Compatible

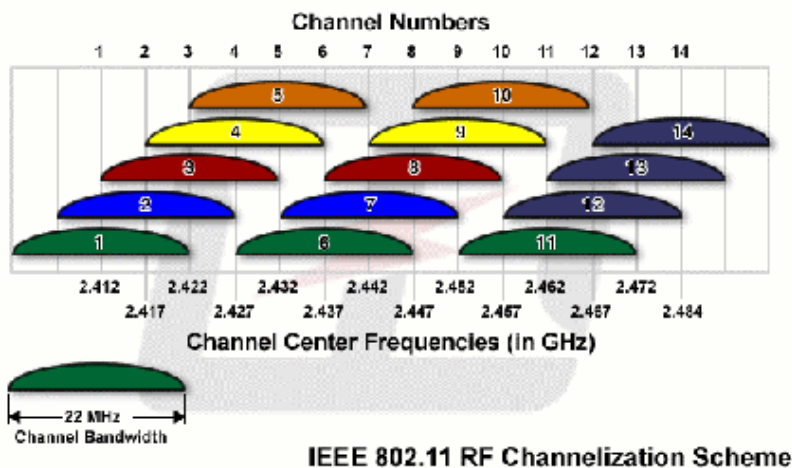
### Features :

- Compact Size with N-Female Connector
- Reduce Interference and Improve Performance
- Low Insertion Loss (<2dB) with High Quality Cavity Filter
- Aluminum Construction with lightning protection (DC Short)
- Ideal for high data rate 802.11b and 802.11g Wireless LAN application
- 30Mhz Bandwidth for 4pole Model & 22Mhz Bandwidth for 8pole Models

In some circumstances, we can avoid interference caused by transmission source near our transmitting channel, which can be identified by signal strength or frequency. This unwanted Transmission may confuse your receiver or cover up the signal you are trying to receive.

Our WiFi Bandpass Filter is able to reduce interference from both inside & outside the band to improve performance of co-located Equipment. This Filter provides excellent adjacent channel rejection by only pass the channel you transmitting or receiving. Filters are available in 5 versions for Channel 1, 3, 6, 9 and 11. Filter is bi-directional, so either port can be connected to antenna.

There total 14 frequency sub channels available for Wireless Radio in 2.5Ghz and there are slightly overlap between the channel (see below chart). The simple way to avoid interference is by choosing frequency channel is several channel apart from each other (e.g. Channel 1,6 and 11). Otherwise we need to do channel filtering to which only pass one channel and reject all other channel, isolate between channels, and protect against signal outside our band.



Filter 4pole and 8pole represent a filtering circuit; the more poles, the more filtering strength. 4poles Filter is applicable to filter weaker interference signal, meanwhile 8poles Filter is recommended for WiFi zone with strong RF signals.

Description	Indoor 4-Poles WiFi Band Filter				
Model	PW-WBF-401	PW-WBF-403	PW-WBF-406	PW-WBF-409	PW-WBF-411
Centre Frequency	2412Mhz-CH1	2422Mhz-CH3	2437Mhz-CH6	2452Mhz-CH9	2462Mhz-CH11
Outband Rejection	>45dB@2362Mhz >45dB@2462Mhz	>45dB@2372Mhz >45dB@2472Mhz	>45dB@2387Mhz >45dB@2487Mhz	>45dB@2402Mhz >45dB@2502Mhz	>45dB@2412Mhz >45dB@2512Mhz
Bandwidth (-3dB)	30 Mhz				
Insertion Loss	< 2 dB				
Passband Ripple	< 0.25 dB				
Return Loss	> 15 dB				
Harmonic Rejection	> 90 dBc				
Impedance	50 Ohm				
Power Handling	50 Watts				
Number of Cavity	4				
Operating Temperature	-40°C to +85°C				
Dimension	56 x 56 x 21 mm				
Weight	0.23 Kg				
Connectors	N-Female				

Description	Indoor 8-Poles WiFi Band Filter				
Model	PW-WBF-801	PW-WBF-803	PW-WBF-806	PW-WBF-809	PW-WBF-811
Centre Frequency	2412Mhz-CH1	2422Mhz-CH3	2437Mhz-CH6	2452Mhz-CH9	2462Mhz-CH11
Outband Rejection	>60dB@2387Mhz >60dB@2437Mhz	>60dB@2397Mhz >60dB@2447Mhz	>60dB@2412Mhz >60dB@2462Mhz	>60dB@2427Mhz >60dB@2477Mhz	>60dB@2437Mhz >60dB@2487Mhz
Bandwidth (-3dB)	22 Mhz				
Insertion Loss	< 3 dB				
Passband Ripple	< 0.25 dB				
Return Loss	> 15 dB				
Harmonic Rejection	> 90 dBc				
Impedance	50 Ohm				
Power Handling	50 Watts				
Number of Cavity	8				
Operating Temperature	-40°C to +85°C				
Dimension	4.3" x 2.2" x 0.8" (108 x 56 x 21 mm)				
Weight	0.31 Kg				
Connectors	N-Female				

Description	Outdoor 8-Poles WiFi Band Filter				
Model	W-PW-WBF-801	W-PW-WBF-806	W-PW-WBF-809	W-PW-WBF-811	W-PW-WBF-813
Centre Frequency	2412Mhz-CH1	2437Mhz-CH6	2452Mhz-CH9	2462Mhz-CH11	2472Mhz-CH13
Outband Rejection	>60dB@2387Mhz >60dB@2437Mhz	>60dB@2412Mhz >60dB@2462Mhz	>60dB@2427Mhz >60dB@2477Mhz	>60dB@2437Mhz >60dB@2487Mhz	>60dB@2447Mhz >60dB@2497Mhz
Bandwidth (-3dB)	22 Mhz				
Insertion Loss	< 3 dB				
Passband Ripple	< 0.25 dB				
Return Loss	> 15 dB				
Harmonic Rejection	> 90 dBc				
Impedance	50 Ohm				
Power Handling	50 Watts				
Number of Cavity	8				
Operating Temperature	-40°C to +85°C				
Dimension	4.9" x 2.9" x 1.4" (124 x 74 x 35mm)				
Weight	0.71 Kg				
Connectors	N-Female				