

Passive crossover networks (filters) FD 212 – FD 250

Description:

These 2 way passive filters have been designed to obtain an optimum crossover frequency with a crossover slope of 12dB/octave, and more than 500w RMS of power handling capacity.

When constructing these units the user has several possibilities to design a system in order to get the desired performance. This makes combinations of loudspeakers or compressors and equalisers possible in a quick and easy way.

At low frequencies, the impedance load can be 8 or 4 ohms without effecting the crossover frequency, attenuation slope, admissible power and so on. This solution is perfect when one wants to use more than one loudspeaker in this work zone without falling back to unusual impedances (16 ohms, 4 ohms). Also, when one wants to obtain the amplifier's maximum output power, using low output impedance.

In the high frequency range, there are varies attenuation options. It is possible to work with an invalid attenuation, or on the contrary to apply the most appropriate attenuation of either: -3dB, -6dB and -7.5dB.

Moreover, selective attenuation (equalisation) can be used in medium frequencies which is very useful when using systems with constant directivity horns which represent a gain in this zone. All these options are established by the user and are clearly identified in the supplied drawing. Pay special attention to the instructions in order to obtain the best results and avoid any mistake that can damage driver voice coils or amplifier units.

LOW FREQUENCY CONNECTIONS	
Bridge between 1 & 2 terminals	4 Ohms load impedance
Bridge between 2 & 3 terminals	8 Ohms load impedance

HIGH FREQUENCY CONNECTIONS:	
Bridge between 4 & 5 terminals	No equalisation
Bridge between 6 & 7, 8 & 9 terminals	No attenuation
No Bridge between 4 & 5 terminals	Equalised (-3.5 dB at 3 kHz)
No Bridge between 6 & 7 terminals	3 dB attenuation
No Bridge between 8 & 9 terminals	6 dB attenuation
No Bridge between 6 & 7, 8 & 9 terminals	7.5 dB attenuation
Note: This filter is supplied with the connections as follow: 8 ohm load impedance in low frequency, no equalisation and no attenuation in mid and high frequency.	

