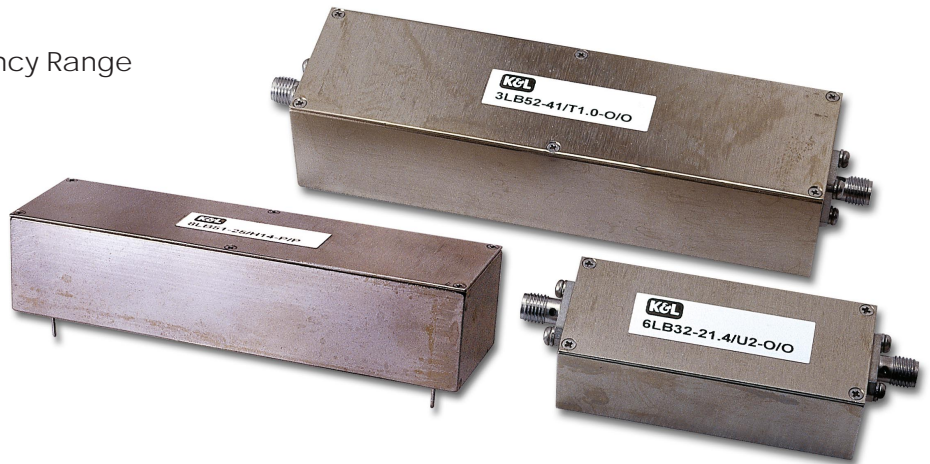


Lumped Components, Miniature Bandpass — LB Series

◆ Features:

- Covers the 0.5 MHz to 200 MHz Frequency Range
- 3 dB BW Available from 1-200%
- Designs Available in 2-10 Sections
- Low Insertion Loss
- 0.05 dB Chebyshev Response
- Small, Ruggedized Package
- Custom Designs Available



◆ Specifications:

Model	Frequency (MHz)	3 dB % BW	VSWR	Average Power (Watts)	Impedance (Ohms)*	No. of Sections	Shock	Vibration	Temperature	Relative Humidity
LB10	0.5-200	1-50 / 50-200	1.5:1 / 1.7:1	Contact Factory	50	2-10	20 G's, 1/2 Sine, 11 Ms	10 G's, 10 Hz- 2000 Hz	-55 to +85 °C	0-95%
LB30	5-150	3-50 / 50-200	1.5:1 / 1.7:1	15	2-10					
LB40	15-200	3-50 / 50-200	1.5:1 / 1.7:1	10	2-10					
LB50	0.5-200	3-50 / 50-200	1.5:1 / 1.7:1	20	2-10					

* 75 ohms also available.

◆ Attenuation:

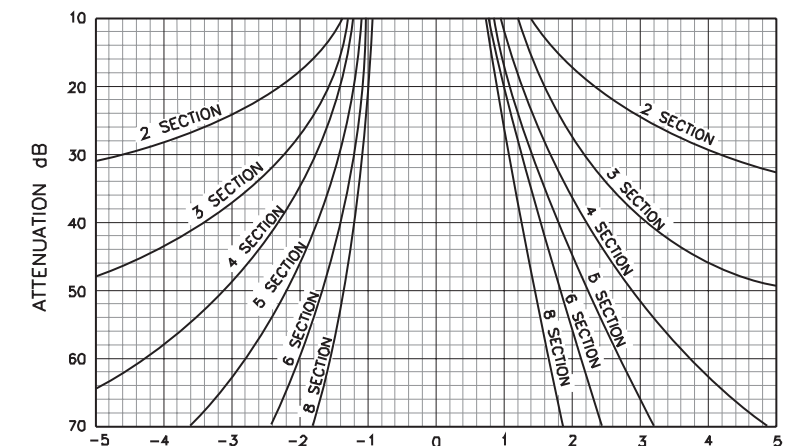
The adjacent curve shows the attenuation as multiples of the bandwidth for filters with 2-8 sections. The following formula is used:
3 dB bandwidths from center frequency =

$$\frac{\text{Reject Frequency} - \text{Center Frequency}}{3 \text{ dB Bandwidth}}$$

Example:

Center Frequency = 21.4 MHz
3 db Bandwidth = 2
Number of Sections = 6

Find the attenuation at 17.4 and 25.4 MHz by substituting in the formula 3 dB bandwidth from center frequency = $\frac{17.4-21.4}{2} = -2 \text{ BW's}$ and



3 dB bandwidth from center frequency =

$$\frac{25.4-21.4}{2} = +2 \text{ BW's}$$

From the curve, we find the attenuation in dB for a 6-section response -2 bandwidths from center frequency yield 60 dB, and +2 bandwidths from center frequency yields 58 dB.



Filtering Solutions for Your Global Market

USA
Phone: 410-749-2424
FAX: 410-749-5725
Email: sales@klmicrowave.com

EUROPE
Phone: +44-(0)-1908-547920
FAX: +44-(0)-1908-695284
Email: sales@kleurope.com

Order On-Line @ www.klmicrowave.com

