

4th Order Absorptive Bessel Low Pass Filters



RLC Electronics' 4th Order Absorptive Bessel Filters provide the excellent group delay response of Bessel filters while maintaining impedance matching far into the stop band. Resistive elements are designed into these filters, resulting in a response that closely mimics the classic Bessel in both amplitude and phase. These filters are used in digital systems where truthful reproduction of waveforms is important. These filters are now available with -3dB cut off frequencies as high as 10 GHz. A surface mount configuration is available to 4 GHz.

Specifications

LBA⁻¹⁻²

Model No.	-3 dB Cut-off Frequency (MHz)	f/fc	Nominal Attenuation (dB)	Attenuation Accuracy (dB) Cut-off < 4 GHz	Attenuation Accuracy (dB) Cut-off > 4 GHz
LBA-	10 to 10,000*	0.2	-0.1	.2	.2
		0.4	-0.4	.2	.25
		0.6	-1.0	.2	.25
		0.8	-1.9	.2	.3
		1.0	-3.0	.2	.3
		1.2	-4.5	.48	.55
		1.33	-5.7	.59	.75
		1.4	-6.4	.64	.85
		1.6	-8.5	.74	1.00
		1.8	-10.9	.89	1.2
		2.0	-13.4	1.00	1.6
		2.67	-21.5	N/A	N/A

To designate the filter desired use:

- (1): 3dB cut-off frequency in MHz (2): "S" for surface mount
 *surface mount configuration to 4Ghz max

Impedance: 50 ohms

VSWR:

1.5:1 to 2X 3dB cut-off or 8GHz (Whichever is less for cut-off < 4,000 MHz)

1.65:1 to 2X 3dB cut-off or 18 GHz (Whichever is less for cut-off > 4,000 MHz)

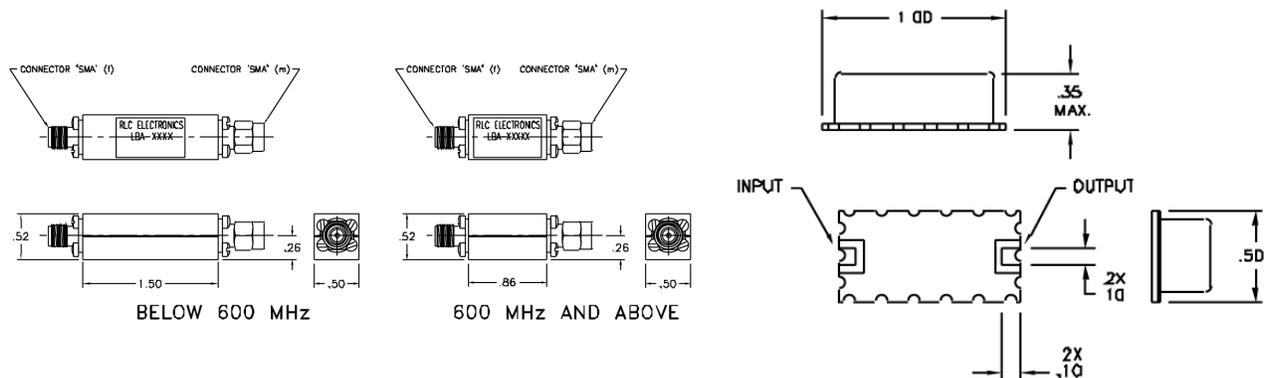
Connector Type: SMA female / male

Temperature: 55C to +85C

Environment: MIL-E-5400, Class 1A

Power Rating: 0.5 watts average

Outline Drawing



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