MtronPTI March Newsletter

GPS L1 and L2 Band Ceramic Filters

MtronPTI's L1 and L2 band ceramic filters are designed for use on L1 and L2 GPS receivers. When placed in-line between the GPS receiver and the antenna, these filters provide a minimum of 27 dB attenuation outside of the GPS band. This an effective way to reduce interference from other communication devices that interfere with the GPS signal in your application.

Our filters are targeted towards industrial and commercial applications involving L1 and L2 GPS bands. Filters are manufactured using High-Q Ceramic Resonators to achieve low insertion loss.

Standard offering is in table 1. Custom filters are also available.

MtronPTI Part#	GPS Band	Center Frequency (MHz)	Bandwidth (MHz)	IL in B.W (dB)) max.	Ripple in B.W (dB) max.	Attenuation(dB)	Operating temperature	Dimension(mm)
CF9733R	L1	1575.42	+/-10.25	3.0	1.0	40.0 (Min) @ FC+/-50MHz 65.0 (Min) @ FC+/-	-40C to +85 C	32.51x13.97x6.76
CF9735R	L1	1575.42	+/-10.00	1.5	0.5	27.0 (Min) @ 1500MHz and 1650MHz	-30C to +75 C	26.0x17.0x9.5
CF9735R	L1	1575.42	+/-10.00	1.5 (Max)@ -30°C ~ +75°C 2.5 (Max) @ -55°C ~ +95°C	0.5	27.0 (Min) @ 1500MHz and 1650MHz	-55C to +95 C	26.0x17.0x9.5
CF9734R	L2	1227.60	+/-10.25	3.0	1.0	40.0 (Min) @ FC+/-50MHz 65.0 (Min) @ FC+/-100MHz	-40C to +85 C	32.51x13.97x6.76
CF9737R	L2	1227.60	+/-10.00	1.3	0.5	27.0 (Min) @ 1152MHz and 1302MHz	-30C to +75 C	26.0x17.0x9.5
CF9738R	L2	1227.60	+/-10.00	1.3 (Max)@ -30°C ~ +75°C 2.3 (Max) @ -55°C ~ +95°C	0.5	27.0 (Min) @ 1152MHz and 1302MHz	-55C to +95 C	26.0x17.0x9.6
CF9739R	L2	1227.60	+/-10.00	2.8	0.8	6.0 (Min) @ 1207.6MHz& 1247.6MHz 27.0 (Min) @ 1187.6MHz & 1267.6MHz 37.0 (Min) @ 1167.6MHz & 1287.6MHz	-30C to +75 C	26.0x17.0x9.6
CF9740R	L2	1227.60	+/-10.00	2.75 (Max)@ -30°C ~ +75°C 3.75 (Max) @ -55°C ~ +95°C	0.8	6.0 (Min) @ 1207.6MHz& 1247.6MHz 27.0 (Min) @ 1187.6MHz & 1267.6MHz 37.0 (Min) @ 1167.6MHz & 1287.6MHz	-55C to +95 C	26.0x17.0x9.6

Please visit our website for more details:

http://www.mtronpti.com/products/Filter/Bandpass