

# Link16 Band Filters



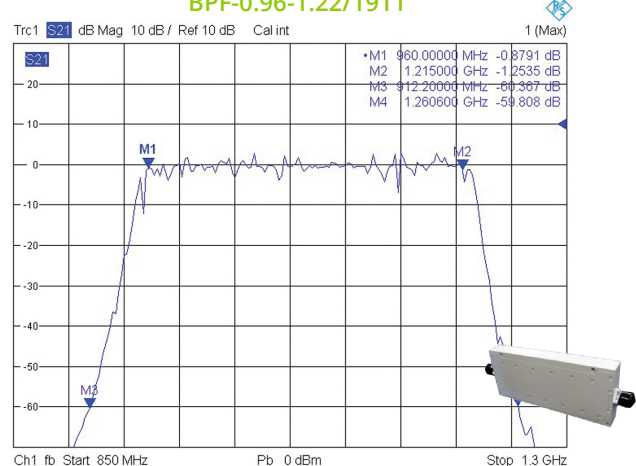
## Band Pass, Band Stop and Notch Filters

Chelton Limited produce a range of filters for use in the Link16 frequency band. These filters allow signals to be passed (between the specified frequency ranges) or rejected (outside the specified frequency ranges).

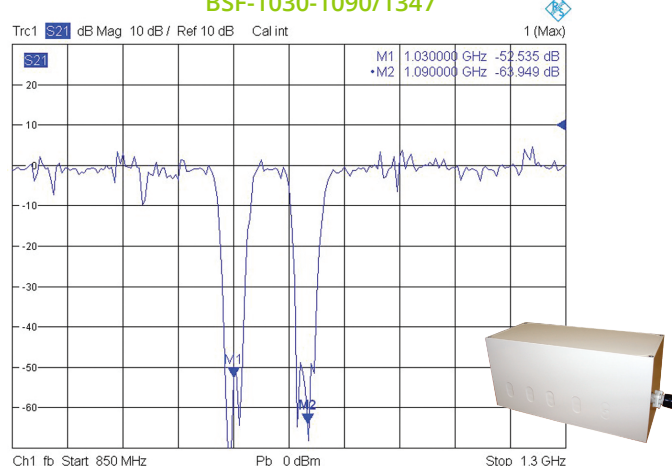
The table below shows the common filters required for the Link16 frequency band. If you require a different product or frequency range we would be happy to discuss your requirements:

|                       | Band Stop Filter<br>BSF-1030-1090/1347                     | Band Pass Filter<br>BPF-0.96-1.22/1911    | Band Notch Filter<br>BNF-960-1220/2362<br>(Airborne MIL-STD-810F)               |
|-----------------------|--|---|---|
| Passband              | DC to 1008 MHz<br>1053 - 1065MHz<br>1113 - 1900MHz         | 0.962 - 1.213GHz                          | 960 - 1000MHz<br>1055 - 1065MHz<br>1120 - 1215MHz                               |
| Insertion loss (Max)  | 1.0 dB   | 0.9dB                                     | 2dB   |
| VSWR                  | 1.6:1 max  | 1.3:1 max                                 | 2:1 min   |
| Rejection from (Min)  | @ 1060MHz: 65dB<br>@ 1090MHz: 55dB<br>1900 - 4000MHz: 30dB | DC - 750MHz: 60dB<br>1265 - 4000MHz: 60dB | DC - 900MHz: 60dB<br>@ 1030MHz: 60dB<br>@ 1090MHz: 60dB<br>1300 - 3000MHz: 60dB |
| Max Power Handling    | 200W   | 1000W                                     | 50W   |
| Mass                  | 3.7kg  | 0.675kg                                   | 0.7kg   |
| Operating Temperature | -20 to +50°C   | -20 to +50°C                              | -40°C to +85°C  |
| Connectors            | N(F)   | N(F)                                      | SMA Female  |
| Dimensions            | 210x100x85mm   | 175x75x25mm                               | 170 x 80 x 30mm   |
| Finish                | White  | White                                     | Black   |

Pass-band characteristics showing -60dB rejection 50MHz outside the primary Link16 band.  
BPF-0.96-1.22/1911



Rejection characteristics of Notch Filter showing over 50dB rejection at IFF frequencies, 1030MHz and 1090MHz.  
BSF-1030-1090/1347



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For further information please contact:  
Chelton Limited,  
Lambda House, Cheveley,  
Newmarket, Suffolk CB8 9RG, UK.  
T: +44 (0)1638 732 177  
E: [newmarket.sales@chelton.com](mailto:newmarket.sales@chelton.com)  
W: [www.chelton.com/microwave](http://www.chelton.com/microwave)