

FARADAY STEP FILTER

VERY FAST CUT OFF LOWPASS VIDEO FILTER

This range of very sharp cut-off lowpass video filters provide solution to the problem of separating video from multiple audio sub carriers, stereo sound or multi-lingual transmissions with minimum distortion.

The filter provides a maximum passband and a very sharp cut off with good stopband performance out to 200 MHz. Time domain performance is maintained by providing group delay equalisation for more than 93% of the passband.

Type code	End of passband	Start of stopband	Group delay ripple	Delay time
				nominal
FSF0420	4.2 MHz	4.48 MHz	< 20 ns	1870 ns
FSF0510	5.1 MHz	5.44 MHz	< 20 ns	1540 ns
FSF0540	5.4 MHz	5.76 MHz	< 20 ns	1454 ns
FSF0610	6.1 MHz	6.50 MHz	< 20 ns	1287 ns

Common specifications

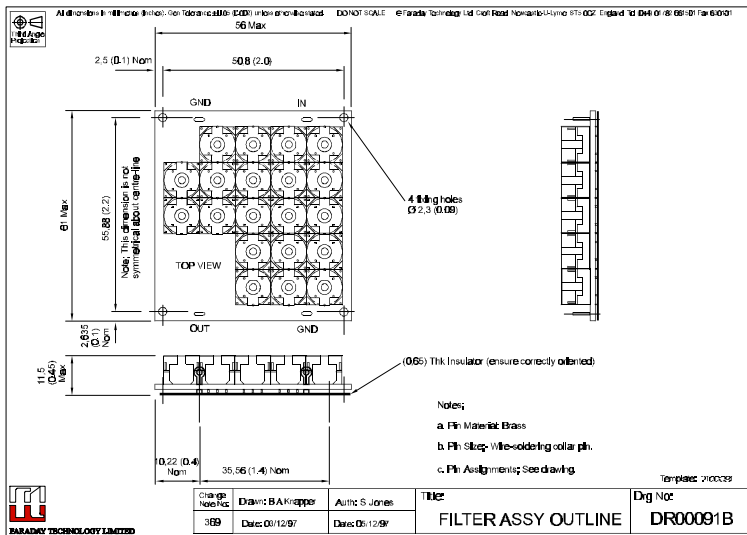
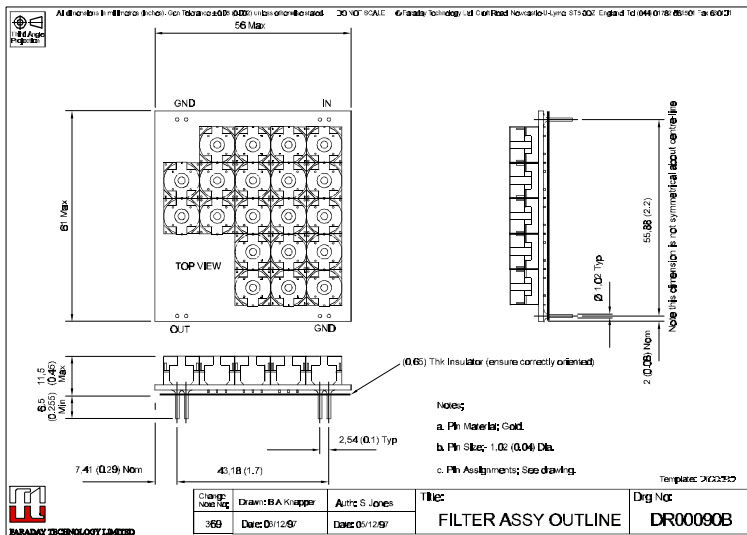
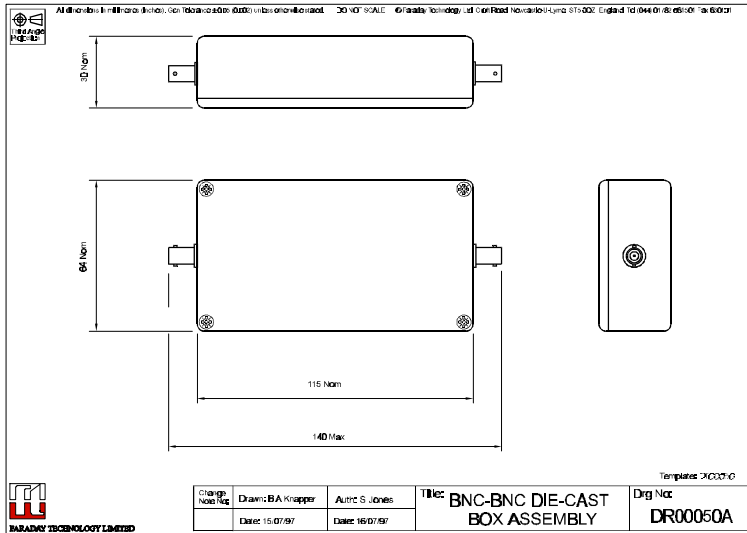
Impedance	75 ohms
Insertion loss	< 3 dB
Passband Amplitude ripple	< 0.15 dB
Stopband Attenuation	> 40 dB
2T Pulse and Bar k-rating (T=100 ns)	1% typical
Aqueous Washable	No

Ordering information

Insert suffix B for BNC box	eg FSF0420B	Package: DR00050A
Insert suffix P for Open PCB with pins	eg FSF0420P	Package: DR00090B
Insert suffix N for open PCB with no pins fitted	eg FSF0420N	Package: DR00091B

Other end of passband frequencies can be supplied. Please contact Faraday for details.

PACKAGE DETAIL



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