

BFB SERIES

ANTI_ALIASING FILTERS

These very small, low cost, filters are intended for use with A-D and D-A composite NTSC video converters using a sample rate of 4 x sub-carrier frequency. The cut off rate is slower than often recommended to reduce time domain ringing.

The pre-filters have a flat passband and the post-filters are shaped to provide $\sin x/x$ correction. Filters suitable for different sampling rates or with various losses at the half sampling frequency can be supplied.

| <i>Type Number</i> | BFB1432F | BFB1432S |
|----------------------------------|-------------------|-------------------|
| <i>Filter Shape</i> | Lowpass | Lowpass |
| <i>Passband Shape</i> | Flat | $\sin x/x$ |
| <i>Sampling Frequency</i> | 14.32 MHz | 14.32 MHz |
| <i>Insertion Loss at 100 kHz</i> | < 1.5 dB | < 4.5 dB |
| <i>End Of Passband</i> | 5.51 MHz | 5.51 MHz |
| <i>Passband Amplitude Ripple</i> | 0.1 dB max | 0.1 dB max |
| <i>Loss at half S.F.</i> | 12 dB \pm 2 dB | 12 dB \pm 2 dB |
| <i>Start Of Stopband</i> | 9.12 MHz | 9.12 MHz |
| <i>Stopband Attenuation</i> | 40 dB min | 40 dB min |
| <i>Delay Time at 200 kHz</i> | 188 ns \pm 5 ns | 217 ns \pm 5 ns |
| <i>Pulse and bar: K - rating</i> | 1% | 1% |
| <i>Impedance</i> | 75 ohms | 75 ohms |
| <i>Temperature Range</i> | 0°C to 70°C | 0°C to 70°C |
| <i>Aqueous Washable</i> | Yes | Yes |
| <i>Package Type</i> | DR00275A | DR00253A |

PACKAGE DETAIL

