faraday
TECHNOLOGY

BFB SERIES
ANTIALIASING 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 sinx/x correction. Filters suitable for different sampling rates or with various losses at the half sampling frequency can be supplied.

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

PACKAGE DETAIL

All dimensions in millimetres (inches). Gen Tolerance ± 0.05 (0.002) unless otherwise stated.   DO NOT SCALE   © Faraday Technology Ltd Croft Road Newcastle-U-Lyme ST5 0QZ England Tel (044) 01782 661501 Fax 630101

Third Angle Projection

TOP VIEW

8,0 (0.31) Max.

40,1 (1.58) Max.

3,81 (0.15) Min.

13,6 (0.54) Max.

4,25 (0.167) Nom.

Pin 1   Pin 2   Pin 3   Pin 4

5,08 (0.2)

2,3 (0.09) Nom.   30,48 (1.2) Nom.

35,56 (1.4) Nom.

Notes;
Pins Matl; Phosphor Bronze Hot Tin dipped.
Pins Size; 0,51 (0.02) x 0,25 (0.01)
Pin Assignments; Pin 1 = Input
　　　　　　　　Pin 4 = Output.
　　　　　　　　Pins 2 & 3 = Gnd.

Template: DF00008

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Change Note No;	Drawn:	B A Knapper	Auth: C Snell	Title:	Drg No:
	Date:	29/11/99	Date: 30/11/99	FILTER ASSY	DR00253A

All dimensions in millimetres (inches). Gen Tolerance ± 0.05 (0.002) unless otherwise stated.   DO NOT SCALE   © Faraday Technology Ltd Croft Road Newcastle-U-Lyme ST5 0QZ England Tel (044) 01782 661501 Fax 630101

Third Angle Projection

TOP VIEW

8,0 (0.31) Max.

30,1 (1.19) Max.

3,81 (0.15) Min

13,6 (0.54) Max.

4,25 (0.167) Nom.

Pin 1   Pin 3   Pin 9   Pin 11

5,08 (0.2) Typ.

2,3 (0.09) Nom.   25,4 (1)

Notes;
Pins Matl; Phosphor Bronze Hot Tin dipped 60/40
Pins Size; 0,51 (0.02) x 0,25 (0.01).
Pin Assignments; Pins 1 & 11 = Input/Output.
　　　　　　　　Pins 3 & 9 = Gnd.

Template: DF00008

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Drawn:	B A Knapper	Auth: C Snell	Title:	Drg No:
Date:	29/02/00	Date: 01/03/00	FILTER ASSY	DR00275A