HK SERIES

LOW COST HDTV FILTERS

These filters are specifically designed for antialiasing and reconstruction in low cost analogue to digital and digital to analogue conversions operating at HDTV sampling rates, they are typically used in HDTV monitors, television sets and monitor quality interface products.

Small Dipped SIL package   Luminance and Colour Difference versions

Flat and Sinx/x corrected versions   Low cost

Order Code	HKYFA	HKYSA	HKCFA	HKCSA
Filter Shape	Lowpass	Lowpass	Lowpass	Lowpass
Passband Shape	Flat	Sinx/x	Flat	Sinx/x
Sampling Frequency	74.250 MHz	74.250 MHz	37.125 MHz	37.125 MHz
Insertion Loss at 100 kHz	< 1.0 dB	< 3.5 dB	< 1.0 dB	< 3.5 dB
End Of Passband	30.0 MHz	30.0 MHz	15.0 MHz	15.0 MHz
Passband Amplitude Ripple	< 1.0 dB	< 1.0 dB[1]	< 1.0 dB	< 1.0 dB[2]
Start Of Stopband	45.0 MHz	45.0 MHz	22.0 MHz	22.0 MHz
Stopband Attenuation	>30 dB	>30 dB	>28 dB	>28 dB
Delay Time at 200 kHz	13 ns	10 ns	20 ns	17 ns
Impedance	75 ohms	75 ohms	75 ohms	75 ohms
Temperature Range	0 to 70^0 C	0 to 70^0 C	0 to 70^0 C	0 to 70^0 C
Aqueous Washable	Yes	Yes	Yes	Yes
Package	DR00034A	DR00064B	DR00034A	DR00064B

[1]*Measured against sinx/x roll off for a Sampling Frequency of 74.250 MHz.*

[2]*Measured against sinx/x roll off for a Sampling Frequency of 37.125 MHz.*

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

4.2 (0.16) Max.

3.81 (0.15) Min.

1.0 (0.04) Nom.

20.32 (0.8) Max.

11 (0.433) Max.

Pin 1   Pin 7

2.54 (0.1) Typ.

2.54 (0.1) Nom.

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 & 5 = In/Out.
Pins 2,3,4,7 = Gnd.
Pin 6 = Connect to Pin 5 for Sin x/x correction.

Template: DR00064

Change Note No.	Drawn:	P A Knapper	Auth:	C Snell	Title:	FILTER ASSY	Drg No:	DR00064B
932	Date:	07/12/01	Date:	07/12/01				

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4.2 (0.16) Max.

3.81 (0.15) Min.

1.0 (0.04) Nom.

15.24 (0.6) Max.

12.8 (0.504) Max.

Pin 1   Pin 5

2.54 (0.1) Typ.

2.54 (0.1) Nom.

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 & 5 = In/Out.
Pins 2,3,4 = Gnd.
In/Outs are interchangeable.

Template: DR00034

Drawn:	P A Knapper	Auth:	C Snell	Title:	FILTER ASSY	Drg No:	DR00034A
Date:	29/01/98	Date:	15/01/97				

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