

OBSERVE ELECTROSTATIC



FHC6 SERIES

The FHC6 series of active hybrid filters have been designed for oversampled NTSC, PAL or 601 pre and post applications. All FHC6 filters have the same tightly specified passband, transition and stopband characteristics and provide access for DC offset control. $\sin x/x$ correction (if required) and gain are accurately set at the factory to the customer's requirements. The modules have high input and low output impedance and can drive 75Ω terminated loads.

BASIC SPECIFICATION

<i>Input Impedance</i>	2.0 M Ω typical
<i>Output Impedance</i>	< 1 Ω (op-amp driver output)
<i>Passband</i>	6.0 MHz
<i>Passband Amplitude Ripple</i>	± 0.05 dB
<i>Start of Stopband</i>	21.0 MHz
<i>Stopband rejection</i>	45 dB min
<i>Insertion Delay at 200 kHz</i>	45 ns nominal
<i>Group Delay Ripple</i>	12 ns max to 6.0 MHz 2.5 ns max to 3.58 MHz
<i>Power supply</i>	± 5 V
<i>Typical Current</i>	8 mA per rail at ± 5 V supply
<i>Differential Gain</i>	0.1%
<i>Differential Phase</i>	0.1°
<i>Aqueous Washable</i>	Yes
<i>Package</i>	DR00185A

OPTIONS

	FHC6-AA	FHC6-BA	FHC6-CA	FHC6-DA	FHC6-EA	FHC6-FA
Passband shape	$\sin x/x$	$\sin x/x$	$\sin x/x$	$\sin x/x$	flat	flat
Sampling frequency	27.0 MHz	27.0 MHz	28.6 MHz	28.6 MHz	-	-
Gain (± 0.1 dB)	0 dB	6 dB	0 dB	6 dB	0 dB	6 dB

Note: if your requirement is not covered by the above options just let us know and we will customise a filter design to your individual specifications.

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

Notes;

Pins Matl; Phosphor Bronze Hot Tin dipped 60/40.

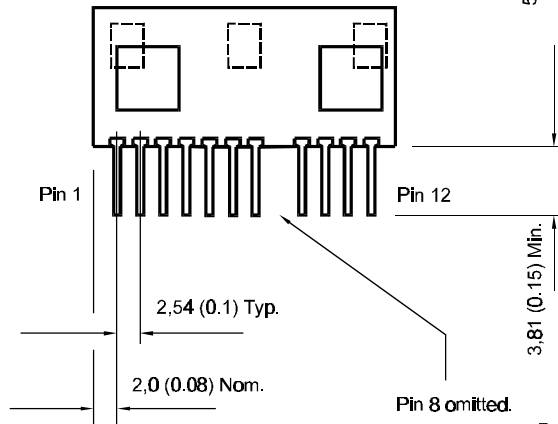
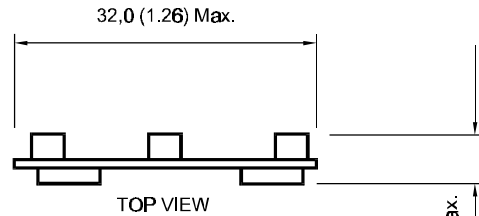
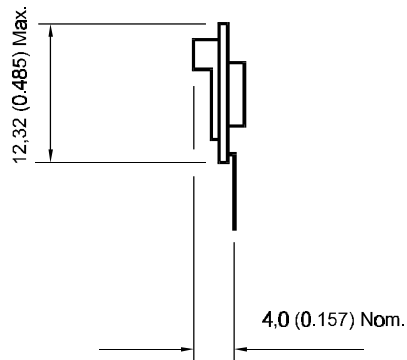
Pins Size; 0,51 (0.02) x 0,25 (0.01).

Pin Assignments; Pin 1 = Input. Pin 12 = Output.

Pin 7 = +v Pin 9 = -v

Pin 6 = Available for DC offset control.

Pins 2,3,4,5,10 & 11 = Gnd.



Template: DT00037



FARADAY TECHNOLOGY LIMITED

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Date: 12/11/98	Date: 11/11/98		