



AH843

FULLY BUFFERED SQUARE PIXEL NTSC POST FILTER

The AH843 has been designed for NTSC post D/A applications with accurate $\sin x/x$ correction for the 12.27 MHz square pixel rate. Interfacing to the system is simplified with high input and low output impedance op-amp buffer stages.

<i>Filter Shape</i>	Lowpass
<i>Passband Shape</i>	$\sin x/x$
<i>Sampling Frequency</i>	12.27 MHz
<i>Gain</i>	- 0.2 dB \pm 0.2 dB with pin 6 open +5.8 dB \pm 0.2 dB with pin 6 gnd
<i>End Of Passband</i>	4.4 MHz
<i>Passband Amplitude Ripple</i>	0.25 dB max
<i>Loss at 6.6 MHz wrt 4.4 MHz</i>	30 dB \pm 2 dB
<i>Start Of Stopband</i>	7.0 MHz
<i>Stopband Attenuation wrt 4.4 MHz</i>	40 dB min to 20 MHz 35 dB min to 50 MHz
<i>Group Delay Ripple wrt 200 kHz</i>	\pm 10.0 ns max to 4.3 MHz
<i>Delay Time at 200 kHz</i>	338 ns \pm 10 ns
<i>Typical Current</i>	50 mA (25 mA per rail at \pm 5 v)
<i>Input Impedance</i>	10 M Ω typical
<i>Package</i>	DR00032A

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

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 6 = Gnd for gain 2
 N/C for gain 1
 Pin 7 = +v Pin 9 = -v
 Pins 2,3,4,5,10 & 11 = Gnd.

32,0 (1.26) Max.

TOP VIEW

5,3 (0.208) Max.

11,5 (0.453) Max.

4,0 (0.157) Nom.

Pin 1

2,54 (0.1) Typ.

2,0 (0.08) Nom.

Pin 12

3,81 (0.15) Min.

Pin 8 omitted.

Template: DT00032

Drawn: B A Knapper	Auth: C Snel	Title: FILTER ASSY	Drg No: DR00032A
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FARADAY TECHNOLOGY LIMITED