S17 SERIES
GENERAL PURPOSE LP FILTER

STEEPNESS FACTOR 1.72

This range of 5-pole Elliptical Function Low Pass Filters is intended for bandwidth limitation with minimal distortion of the transmitted signal. The modest rate of cut off minimises time domain ringing The filters are corrected for Group Delay distortion over 92% of the passband and for loss distortion over the entire passband. Degradation of a composite video signal is small when a 4.5 MHz or 5.5 MHz filter is selected for a 525 or 625 line T.V. system.

Order Code	End of Passband MHz	Start of Stopband MHz	Group Delay Ripple ns	Delay Time ns
S17020G	2.00	3.44	65	500
S17025G	2.50	4.30	55	400
S17030G	3.00	5.16	45	333
S17035G	3.50	6.02	40	286
S17040G	4.00	6.88	35	250
S17045G	4.50	7.74	30	222
S17050G	5.00	8.60	25	200
S17055G	5.50	9.46	25	182
S17060G	6.00	10.32	25	167
S17065G	6.50	11.18	20	154
S17070G	7.00	12.04	20	143
S17075G	7.50	12.90	20	133
S17080G	8.00	13.76	15	125
S17085G	8.50	14.62	15	118
S17090G	9.00	15.48	15	111
S17095G	9.50	16.34	15	105
S17100G	10.00	17.20	15	100

Other data		
	Impedance	75 ohms
	Stopband attenuation wrt 100 kHz	> 40 dB
	Insertion Loss at 100 kHz	< 1.3 dB
	Amplitude ripple in passband	< 0.3 dB
	Video performance for filters of 5.0 MHz (4.5 MHz for 525 line) and above.	
	Pulse and bar: K - rating	< 1.0%
	Luminance/Chrominance Gain inequality (20T)	< 3%
	Luminance/Chrominance Delay inequality (20T	< 10 ns
	Aqueous Washable	Yes
	Package	DR00014A

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

26,8 (1.06) Max.

11,5 (0.452) Max.
Total height

1,9 (0.07) Nom.

22,86 (0.9)

2,54 (0.1) Matrix.

7,62 (0.3)

12,07 (0.48) Max.

Pin 20   Pin 11

TOP VIEW

Pin 1   Pin 10

2,16 (0.085) Nom.

3,81 (0.15) Nom.

Notes;
Pins Matl; Brass CDA
Pins Size; 0,46 (0.018) x 0,41 (0.016).
Pin Assignments; Pin 1 = Input.   Pin 10 = Output.
                 Pins 11 & 20 = Gnd.

Template: DT00014

Drawn:	B A Knapper	Auth:	C Snell	Title:	FILTER ASSY	Drg No:	DR00014A
Date:	29/05/96	Date:	15/01/97				

FARADAY TECHNOLOGY LIMITED