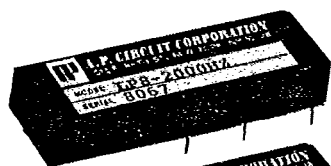




A.P. CIRCUIT

"MINI" ACTIVE FILTERS

Low Pass, High Pass and Band Pass
4, 6, or 8 Pole



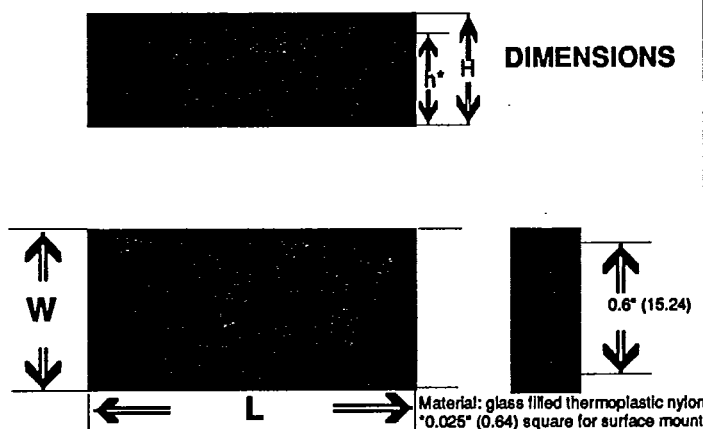
BP8, LP8 - HP8
8 Pole
2.45 x 0.77" x 0.43"



LP6 - HP6
6 Pole
2.045" x 0.8" x 0.43"



LP4 - HP4
4 Pole
1.245" x 0.8" x 0.43"



* (h) - Low Profile Height Option 0.3" (7.6)

-FEATURES-

- Small size
- Standard DIP Package 0.6" between rows of pins
- High Input Impedance (1 Mohm)
- Low Output Impedance (1 ohm)
- Frequency Cut-off Range - 100mHz - 500KHz ($\pm 2\%$)
- Frequency Stability 0.01%/°C
- Unity Gain - up to 30 DB Gain can be specified
- Characteristics
 - Standard: Butterworth
 - Options: Tschebyscheff, Bessel
- Externally adjustable DC offset
- Power supply ± 15 Vdc or down to ± 5 with decreased input signal swing.
- Power Consumption 10 mA/4 pole
- Low Power model available (1 mA/4 pole)
- Operating temp. 0 to 75 deg. C
- Storage temp. -65 to +150 deg. C
- All Filters include decoupling capacitors
- Peak output voltage swing ± 12 V
- Low noise 50 microvolt RMS (DC - 100KHz)
- Low profile 0.3" height, surface mount, phase and attenuation matching

-FILTER SELECTION TABLE-

Filter type	Model	Butterworth Attenuation Slope dB/Oct	Standard Dimensions			Weight oz (gm)	Area In ² (cm) ²	Dip PIN No.
			L" (mm)	W" (mm)	H" (mm)			
Low - Pass 4 pole (5 pole)	LP4 (LP5)	24 (30)	1.245	0.8"	0.43"	0.4	0.99	24
High - Pass 4 pole (5 pole)	HP4 (HP5)		(31.6)	(20.2)	(11)	(12)	(6.4)	
Low - Pass 6 pole	LP6	36	2.045	0.8"	0.43"	0.67	1.63	40
High - Pass 6 pole	HP6		(51.94)	(20.2)	(11)	19	(10.5)	
Low - Pass 8 pole (9 pole)	LP8 (LP9)	48 (54)	2.45	0.77	0.43"	0.8	1.9	48
High - Pass 8 pole (9 pole)	HP8 (HP9)							
Band - Pass 8 pole (10 pole)	BP8 (BP10)	24 (30)	(62.23)	(19.6)	(11)	(23)	(12.2)	

Order

Filter type & pole #
Characteristic: Std. Butterworth omit
Add: T - for Tschebyscheff,
B - for Bessel

As

-3dB cutoff frequency
Package type: Std. DIP omit
Add: S - for Surface Mount

Follows

Height: Add H3 for 0.3" height option.
Omit for 0.43" height

XXX - X - XXXHZ - XX H3

Example: LP4-3000Hz 4 pole Low Pass Butterworth with cut-off frequency at 3000Hz
LP8-T-100Hz -S-H3 8 pole Low PassTschebyscheff characteristic, cut-off frequency at 100Hz in an a surface mount package with 0.3" height.

A.P. CIRCUIT

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