

SA X 60A & SA 3200 series



- **UNEQUALLED FLEXIBILITY**
many combinations possible
- **STUDIO QUALITY**
very low phase distortion
- **HIGH SLEW-RATE**
excellent transient response
- **SYMMETRIC INPUTS & OUTPUTS**
electronically balanced/unbalanced



The SA X 60A is an electronic crossover unit intended for use in high quality sound systems in studios, theatres and discos. It is also ideally suited for PA applications. The SA 3200 series comprises passive frequency dividing networks for use in studio monitors, stage floor monitors and small PA systems. Featuring excellent sound quality and unequalled flexibility, the X 60A and the 3200 series are built to withstand heavy "on-the-road" environments.

SA Filters: ingenious designs!

The X 60A electronic crossover has 2 inputs and 6 outputs. They are all electronically balanced, but can be switched to unbalanced with internal switches. Each output has an individual, 41-step level potentiometer and channel on/off switch. Many combinations can be made to suit your specific needs: 2-way stereo, 2-way + 3-way, 2 x 3-way, 1 x 4-way, 1 x 5-way or 1 x 6-way.

The 24dB/octave Bessel filter-circuitry is carefully designed to very high standards to achieve high slew-rate and minimal phase-shifting in order to obtain outstanding transient response. This results in an extremely natural, clean and open sound. Sub-sonic and ultra-sonic cut-off filters are provided to get rid of rumble and rf interferences.

The various turnover-frequencies are selected by means of different plug-in P.C. boards inside the unit; one for each high- or low-pass filter. This allows you to choose different frequencies to "overlap" or make a "hole" in the frequency spectrum. To obtain maximum equality between the different bands and channels, the top-grade components determining the turnover frequencies are individually hand-selected to 1% tolerances.

The SA 3200 series passive filters are developed mainly for 2-way systems where the top-end consists of a compression driver. They have an extra high frequency "by-pass" control that compensates for typical driver cut-off slopes. This offers the advantage of using single-point sound source systems without tweeters whilst still obtaining a frequency response up to 17 kHz. However, the filters can also be used in systems with tweeters with the by-pass control in neutral position.

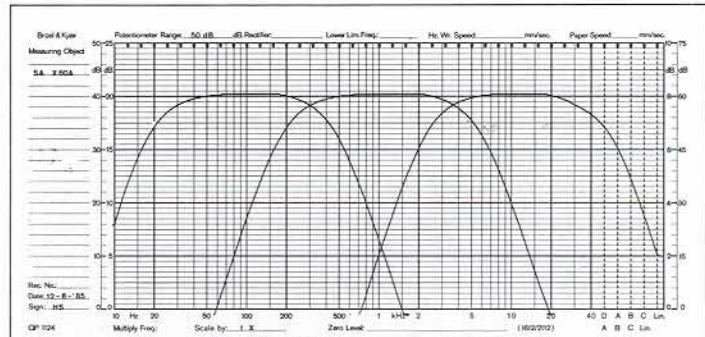
Other top-of-the-line features are high power, low resistance inductors, extra fast capacitors and a very compact size. The filters are built around a standard connector dish; the signal on the output (male) connector can be changed to either input-link, low-frequency out or high-frequency out.

Specifications :

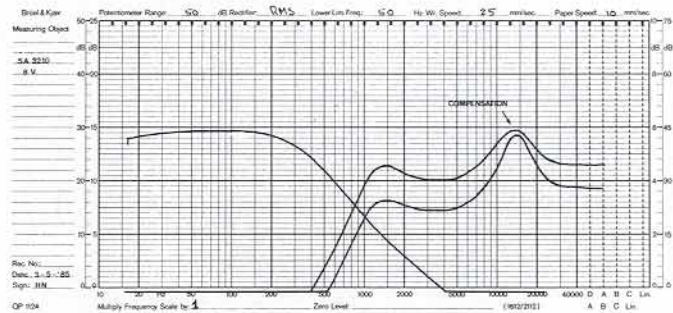
X 60A:

T.H.D.:	better than 0.01%, 20Hz-20kHz,
I.M.D.:	better than 0.01%, 20Hz-20kHz,
Crosstalk:	better than - 70 dB
Noise: (A-weighted)	chan.on: - 99.8 dB chan.off: - 101.6 dB
Max. Input level:	+ 21 dBm
Input impedance:	15 k Ω
Max. Output Level:	+ 21.2 dBm
Output impedance:	600 Ω

Stage Accompany reserves the right to change specifications without notice. As a result of constant research, SA products may differ from published description but will always equal or exceed the specifications stated above.



Typical filter slopes X 60A



Frequency response SA 3210

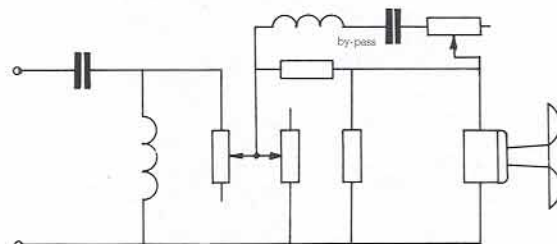


Diagram SA 3200 series

Turnover frequencies (Hz):	23; 28; 50; 100; 140; 180; 225; 280; 350; 500; 800; 1k; 1k25; 1k6; 2k; 2k5; 3k5; 5k; 8k; 10k; 30k other frequencies are optional.
Filter slope:	24 dB/oct. Bessel
Power consumption:	44W
Dimensions:	19" rack mounting, 1 HU high, 280 mm deep netto: 4.5 kg (10 lbs)
Weight:	
SA 3200 series:	
Max. Input power:	All models 300W except the 3270 & 3290 which are 100W
Impedance:	8 Ω ; 4 Ω and 16 Ω optional
Crossover frequencies:	800/1k7*; 1k; 1k9; 3k; 5k; 7k; 9k
Filter slopes:	12 dB/oct.
Dimensions:	180 mm x 130 mm x 160 mm 7" x 5 1/4" x 6 1/4"
Panel cut-out:	146 mm x 96 mm; 5 3/4" x 3 3/4"
Weight:	1,5 kg (3 1/4 lbs)
	* The 3208 is specially designed for use in floor monitors and has a "dip" in the mid-frequency range.



stage accompany

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