Australian Monitor

Provisional Specifications

LIM 1 LIMITER CARD

The new limiter module, designated LIM 1, is now available to suit Australian Monitor K-Series and Opal series power amplifiers. The module fits within the amplifier case, and is compatible with all existing / new K-series and Opal series amplifiers. Installation is as simple as removing the amplifier lid, removing a jumper link and plugging in the card. The card is primarily intended to prevent clipping and limit power delivery.

Applications include the improvement of sound quality by the prevention of clipping, which also prolongs the life of H.F Drivers increasing average power delivery without degrading sound. The card reduces average power delivery in noise-sensitive venues improving speech intelligibility.

As with all Australian Monitor electronics, performance and reliability and guarantied. Only the highest quality components are used - Roederstein resistors, WIMA and Roederstein capacitors, fully enclosed cermet trimpots and high slew-rate, low noise, low distortion op-amps. Each module is individually tested to meet a rigorous specification. And, like our amplifiers, they are built to work in any environment, and built to last.

Features Include:	Specifications:	
-high compression ratio	Threshold:	-20dB to 0 dB re full power
-user-adjustable threshold	Attack time:	1msec to 40 msec
-user-adjustable attack time	Release time:	100 msec to 1.1 sec
-user-adjustable release time	Compression ratio:	20:1
-Linking facility for multi channel applications	Total Harmonic Distortion (20Hz-10kHz):	<0.3%
-electrostatic and electromagnetic shielding for optimum immunity to interference.	Noise:	-95 dB re full power
	Overload Point:	+ 20 dBu in
	Insert Point:	Post attenuator, pre main

A wide range of adjustment on attack and release times allows the module to be used as either a peak limiter (short attack, short release) to prevent clipping on transients, or as an rms limiter (long attack, long release) to control average power delivery and compress dynamic range. This can be particularly useful in speech-only applications where maximum intelligibility is needed with limiter power.

The gain-control element is highly linear, has no effect on the circuit before limiting starts, and produces no audible distortion while limiting. The signal-to-noise ratio of the amplifiers virtually unaffected with the limiter in circuit, and the dynamic range is effectively increased by 16dB.

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