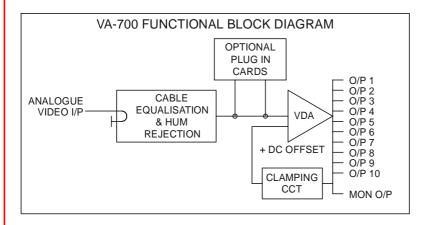


Eurocard Video Distribution Amplifier Type VA-700



Features:

- IRT Eurocard construction
- Loop through input
- Ten BNC outputs on rear
- >30 MHz bandwidth
- Front panel monitoring output
- Cable equalisation to 300 metres
- Various clamping options
- Longitudinal hum stripping
- Front panel EQ & gain adjustment

General:

The VA-700 is a video distribution amplifier of modular Eurocard construction having facilities for cable equalisation, longitudinal hum reduction, and clamping.

The input is a bridging loop through type to facilitate connection to other equipment. Ten 75 Ω outputs are provided on the rear with an additional output on the front panel for ease of monitoring.

The input and output grounds are separated to provide rejection of longitudinally developed hum. The input is AC coupled and the output DC restored with options for no clamping or clamping to the internal or an external signal. The external clamping facility may be used to provide correct DC restoration in YUV & RGB signal situations.

The video gain may be varied by ± 3 dB from the front panel. Internal preset controls allow adjustment of the amplifier frequency response, optimisation of the longitudinal hum rejection, and stage output DC voltages.

Cable equalisation is provided for up to 300 metres of 75 Ω high quality cable with adjustment via the front panel. In addition the VA-700 may be fitted with an optional additional equalisation sub-board and a switch to select equalisation type.

The VA-700 may also be fitted with an optional subboard for mounting of delay lines or filters. The DL-700 sub board also provides delay adjustment trim and additional compensating gain for losses in long delay lines.

The VA-700 may also be used as a pulse distribution amplifier. (Only 6 outputs may be used for 4 Vp-p)

The VA-700 is manufactured on an extended Eurocard board for mounting in IRT Eurocard frames. Up to 12 VA-700's may be mounted in one IRT 3 RU frame with a dual redundant power supply. Other frames and power supplies are available to suit various applications.



VA-700 Technical Specifications

Input		
Туре	Differential AC coupled.	
Number	2.	3120
Impedance	Looping.	OUTPUTS
Return loss	> 46 dB to 6 MHz.	1 2 3
Hum rejection	> 40 dB.	
Maximum level	> 2 Vp-p (0 dB gain).	
Outputs		
Туре	DC coupled.	
Number	11 (Ten on rear and one on front panel).	
Impedance	75 Ω source terminated.	
Return loss	> 40 dB to 6 MHz.	
Overload	3.0 Vp-p on 4.43 MHz sinewave.	
	2.5 Vp-p on pulse.	
DC level	Adjustable to 0 V.	
Performance		
Gain	\pm 3 dB. Adjustable from front panel.	
Frequency response	\pm 0.1 dB from 20 Hz to 20 MHz.	
	\pm 0.2 dB from 20 Hz to 30 MHz.	
Differential gain	< 0.1% at 4.43 MHz (12.5% - 87.5% APL)	
Differential phase	< 0.1° at 4.43 MHz (12.5% - 87.5% APL)	│ ╹ ° (○) │
Noise (unweighted)	<-70 dB	
Cross talk between modules	< -75 dB	
Transit time	< 22° at 4.43 MHz.	
Cable equalisation Standard	Up to 300 m, adjustable from the front panel in	
	ranges as set by internal links. Set for Beldin YR2	
	cable.	
Power Requirements	28 Vac CT (14-0-14) or ±16 Vdc	
Power consumption	100 mA (all outputs loaded in 75 Ω).	
Connectors	BNC	
Other		
Temperature range	0 - 50° C ambient	
Mechanical	Suitable for mounting in IRT 19" rack chassis w	with input output and power
Weenamear	connections on the rear panel	in input, output and power
Finish Front panel	Grey enamel, silk-screened black lettering & red IRT	logo
Rear assembly	Detachable silk-screened PCB with direct mount connectors to Eurocard and	
Rour assembly	external signals	connectors to Eurocard and
Dimensions	6 HP x 3 U x 220 mm IRT Eurocard	
Optional accessories	DL-700 delay & filter sub-board.	
	CVA-3120 Remote gain control sub-board.	
	AVD-3120 Video sync loss detector sub-board.	
	Second equalisation sub-board.	
	TME-6 module extender card.	
Due to our policy of continu	ing development, these specifications are subject to chang	e without notice.
	Detailed specifications available from	
	Detailed specifications available from: Local Agent: IBT can be for	ind on the Internet st.
Manufacturer:	Local Agent: IRT can be for	und on the Internet at:
	Local Agent: IRT can be for	und on the Internet at: irtelectronics.com

Fax:

ARTARMON

N.S.W. 2064 AUSTRALIA Phone: +61 2 9439 3744

+61 2 9439 7439 Email: sales@irtelectronics.com