

Model Number: VTR-50-xxxx

## **NEW** 16 x 16 Victor IF / L-band Matrix



Front View of Model VTR-50-xxxx

ETL's new Victor Series of IF through L-band matrices, operate over the 50-2150MHz frequency range and provide a full fan-out high performance 16x16 matrix with local and remote control in a very **compact form factor**.

This new design of matrix is ideal for TVRO, smaller teleports and satellite ground stations, providing the flexibility of RF routing. The matrix can be used for L-band, IF, and broadband applications

Victor also offers **variable gain**. Isolation, frequency response and linearity are all at class-leading levels, ensuring that we can offer **excellent RF performance** for your RF receive chain. Local control is provided via a compact keypad and display; while remote control is available via serial and Ethernet ports.



Rear View of similar Model VTR-10-B5B5 (with 50 ohm BNC connectors)

Victor brings the normal **resilience** you would expect from ETL with dual redundant power supplies; and monitoring and alarms for RF amplifier and power supply status. Victor is well suited to mission critical applications with restricted rack space which preclude using the hot swap NiGMa series matrices.





RF Engineering and Custom Build

16 x 16 Victor IF / L-band Matrix Router

## Technical specifications and operating parameters PRELIMINARY SPECIFICATIONS

RF Parameters						
Capacity		16 inputs x 16 outputs				
Routing		Distributive, non-blocking		Any input can be connected to any number of outputs		
Frequency Range		50-2150 MHz (IF / L-band)				
<b>RF</b> Connectors		$50\Omega$ SMA	50 <b>Ω</b> BNC	75 <b>Ω</b> BNC	75 <b>Ω</b> F-type	
	50- 2150MHz	±1.5 dB	±1.5 dB	±1.5 dB	±1.75 dB	
Flatness	850- 2150MHz	±1.25 dB	±1.5 dB	±1.5 dB	±1.5 dB	
TIGITIESS	50- 200MHz	±0.5 dB	±0.5 dB	±0.5 dB	±0.5 dB	
	Any 36MHz	±0.20 dB	±0.20 dB	±0.25 dB	±0.35dB	
Incut Date			18 dB typ	16 dB typ	14 dB typ	
Input Retu	JITI LOSS	14 dB min	12 dB min	10 dB min	10 dB min	
	aturaloss	18 dB typ	18 dB typ	16 dB typ	14 dB typ	
Output Re	BIOLLI FOSS	12 dB min	12 dB min	10 dB min	10 dB min	
	Max Gain G <sub>max</sub>	+ 3 dB	Mean across band Fine monotonic gain control			
Gain	Min Gain G <sub>min</sub>	- 3 dB				
	Gain steps	0.25 dB				
1dB Gain Compression		1dBm typical, -2 dBm minimum (Any gain setting)				
IP3		12 dBm minimum				
IP2		20 dBm minimum				
	I/P - O/P	60 dB	Across full band, 50 to 2150MHz			
Isolation	I/P - I/P	60 dB				
	0/P - 0/P	60 dB				
Group De	elay	≤ 1.0 ns	Pk - pk, any 60MHz segment			
Noise Figure		16 dB at m	16 dB at max gain setting			
		18 dB at unity gain setting			Typical values	
			23 dB at min gain setting			

Environmental		
Operating temperature	0 to 45°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	85% non-condensing	

	Power		
AC Power	85-264Vac 47- 63Hz, Fused 2A	60W max consumption	
LNB Power	None	None	
PSU	Dual redundant	Either PSU is rated to power the matrix. Dual mains inlet	
Hot-swap PSU	No		

System Control		
Local Control	Via Front Panel LCD display and push buttons	
Remote Control	Via RS232/485 serial port and RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP	
Display	Front panel LCD Display	

	Physical	
Dimensions	1U high x 500mm deep x 19" wide	
Weight	6 kg	
Colour	White 00-E-55 semi-gloss	

Key Features	
Housed in a compact 1U high chassis	
Local & remote control	
Variable gain	
Dual redundant power supplies	

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