



SOLID STATE TV TRANSMITTERS MTV /5



- ° **Generals.** The TV transmitter MTV 5/S gives 7 Watts peak sync in continuous service. It is suitable for analog or digital TV broadcasting.
- ° **Broadband.** Amplification circuits are broadband, so it is possible to change the transmission channel without their adjustments.
- ° **Stereo and dual sound.** The Audio/Video modulator is available with dual sound facility for stereo transmissions.
- ° **High efficiency** switching mode power supply guarantees high reliability, low heat generation and energy consumption.
- ° **Electronic protection** assures an affordable and stable operation protecting units against major fault conditions.
- ° **Meets or exceeds** all international standards for safety and electrical requirements.





MTV /5 TECHNICAL CHARACTERISTICS

RF Specifications:

Frequency range:	
MTI models	45-90 MHz
MTV models	174-230 MHz
Bandwidth	
Broadband	
Output Power:	
MTI 5/S – MTV 5/S	7 Wps (2 Wrms)
MTI 10/S – MTV 10/S	10 Wps (3 Wrms)
MTI 20/S – MTV 20/S	20 Wps (6 Wrms)
Output impedance	
50 Ω	
Output connector	
N (others on request)	
Spurious and harmonic suppression (ref. to carrier)	
< - 60 dBc (-62 dBc typ.)	
Power stability	
< 1%	
Intermodulation (IMD-DIN 45004 -8, -16, -10 dB)	
< -60 dB (typ. - 62 dBc)	

Video characteristics:

Input connector	BNC unbalanced
Input impedance	75 Ω
Input signal level	1 Vp.p.
Input return loss	>30 dB
Differential gain	< \pm 3 %
Differential phase	< \pm 3 °
Amplitude frequency response (in the vision band)	< \pm 0.5 dB
Group delay frequency response (in the vision band)	< \pm 50 nS
S/N ratio	> 64 dB
2T K factor	< 1.8 %
Luminance non linearity	< 2 %

Audio Characteristics:

Input connector	XLR balanced
Input impedance	600 Ω
THD (50 KHz peak deviation at 1 KHz)	< 0.3 %
S/N (50 KHz peak deviation at 1 KHz)	> 65 dB
Deviation from preemphasis curve (20 Hz to 15 KHz)	\pm 0.5 dB

Metering:

Forward and reflected power, DC voltages and currents, inlet and heatsink air temperatures

Alarms:

VSWR, over temperature, vision signal missing, cooling system failure, overdriving



MTV /5 TECHNICAL CHARACTERISTICS

Operating conditions:

Operating voltage	110/220/240 Vac \pm 10%, 50/60 Hz
	single phase or 380/415 Vac \pm 10%,
	50/60 Hz three phases
Power Consumption (at maximum power):	
MTI 5/S – MTV 5/S	42 VA
MTI 10/S – MTV 10/S	54 VA
MTI 20/S – MTV 20/S	62 VA
Cooling	forced air with fans
Operating temperature	-5° ÷ +45° C
Humidity	95% max

Mechanicals (all models):

Dimensions (WxHxD)	540x280x720 mm
Weight	72 kg

Features and specifications subject to change without notice.