

Ogier Electronics Two Channel Compact ML3100-C2 Links

The ML3100 is a compact two video channel link with a number of data and audio options. The designator HP indicates that high power transmitters are included to increase the range

Regulatory compliance	ETSI EN 300 632 and MPT 1425		
Number of video channels	2 in one direction		
Number of data or audio channels	1 in both directions with 1 optional extra channel		
Frequency band	31.0 to 31.8 GHz		
Frequency stability	Phase locked to 30 ppm		
Range - all weathers	ML3100-C2	2.4 km	
	ML3100-HP-C2	4.0 km	
Availability	99.95% (UK conditions)		
Antenna type (both ends)	High gain Lens Horn		
Antenna size (both ends)	15 cm diameter		
Antenna gain (both ends)	32 dBi		
Transmit power	0 to +15 dBm dBm shared between 2 channels		
Transmit EIRP	ML3100-C2	32 dBm typical	
	ML3100-HP-C2	47 dBm typical	
Polarisation	Vertical or horizontal		
Receiver Noise Figure	6 dB		
Carrier to Noise	18 dB		
Signal to Noise	50 dB		
Carrier to Interference	30 dB		
Modulation	Wideband FM, 10.5 MHz deviation		
Pre-emphasis	Compliant with CCIR Rec 405-1		
Tuner bandwidth	27 MHz		
Video inputs/outputs	PAL or NTSC 5.6 MHz 1Volt 75 ohm		
Video Quality	6% Differential Gain		
	6 Deg Differential Phase		
	6% Bar Amplitude Error		
	6% C/L Gain Inequality		
	6% C/L Intermodulation		
	75 nS C/L Delay		
	6% Bar Tilt		
	2% 2T K		
	6% 2T P/B		
	Data inputs/outputs	Either, RS 485, 422 or 232 at 19.2 kbps Simplex, half duplex or full duplex. Other options available	
		0 dBm in 600 Ohms balanced or unbalanced	
	Audio option (instead of data)	50 to 10,000 Hz +/-3dB	
	Audio frequency response	50 dB	
	Audio Signal to Noise	5% at 1 kHz and 0 dBm	
Audio harmonic distortion	100 - 250 Volts AC, 50 - 60 Hz		
Input voltage	35 Watts each end		
Input power	-20 to +60 C		
Temperature Range	Up to 200 kph		
Wind	20 x 20 x 40 cm		
Dimensions	Power	Terminal connectors	
Connections	Video	BNC connectors	
	Data or audio	Terminal connectors	
Life	15 Years		
Routine maintenance	None required		
Weight	9.5 kg		
Mounting	Horizontal plate with M10 stud and M8 locking		
RF Hazard	None (< 0.2 mW/sqcm average at antenna)		

January 2003 - Ogier Electronics reserve the right to alter this Specification without notification