EQUIPOS DE TELECOMUNICACION
OPTOELECTRONICOS, S.A.

Fibre optic transmission systems for CCTV

Single channel video transmitter A103 model

Optical video baseband transmitter, A103 model

2001.A103.1.0S

OPTICAL PARAMETERS		
Light source	Low power laser (A and B versions) LED (C, CM and D versions)	
Wavelength (see note 1)	850 nm (C and CM versions) 1,310 nm (A and D versions) 1,550 nm (B version)	
Fibre type	Singlemode (9/125 μm) (A and B versions) Multimode (50/125 or 62.5/125 μm) (C, CM and D versions)	
Stabilization	In optical power and modulation index (A and B versions)	
Optical power (see notes 2, 3 and 4)	≥-11 dBm (A and B versions) ≥-12 dBm (62.5/125 μm) (C version) ≥-19 dBm (50/125 μm), ≥-17 dBm (62.5/125 μm) (CM version) ≥-21 dBm (50/125 μm), ≥-16 dBm (62.5/125 μm) (D version)	
ELECTRICAL PARAMETERS		
Video specification	PAL 625/50 Hz	
Input voltage	1 Vpp ± 3 dB	
Input impedance (see note 1)	75 Ω	
Bandwidth (-3 dB) (see note 2)	≥ 5.5 MHz	
Peak to peak differential gain (see notes 1 and 2)	< 3.5 %	
Peak to peak differential phase (see notes 1 and 2)	< 3.5 °	
Signal to noise ratio (weighted) (see notes 1 and 2)	> 60 dB	
POWER PARAMETERS		
Power requirements	Internal of P40W housing	
Power consumption (see note 1)	< 3 W	
MECHANICAL PARAMETERS		
Format	Plug-in module for 19" rack and 3U height	
Dimensions	5 TE x 3U x 160 mm (without connectors)	
Optical fibre connector	FC/PC (A and B versions) ST (C, CM and D version)	
Video coaxial connector	BNC	
ENVIRONMENTAL CONDITIONS		
Operating temperature range	-10 °C to +50 °C	
Humidity range	0 to 95% without condensation	
INDICATORS AND ALARMS (see note 5)		
Unit working	Green	ON
Absence of video input signal	Red	NV
Loss of optical output power	Red	APO

Note 1.- Typical values as a production average

Note 2.- Actual values are given in the test sheet. These values are measured according to the test procedure for this device

Note 3.- Optionally ≥-3 dBm with A1Z0 kit (only for singlemode fibre). 1,310 or 1,550 nm available

Note 4.- Consult with manufacturer or distributor for higher optical power units

Note 5.- LED's in the front side

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