



Description

Receiver of free-to-air digital terrestrial TV programs, or COFDM-PAL transmodulator, with a built-in modulator. Each module selects a TV program from a DVB-T digital channel and converts it into a terrestrial band analogue TV channel. Modulator with analogue stereo audio (ITU-BS 707-4) or mono. The different modules cover the B/G, D/K and I standards.

Applications

Digital MATV installations where it is necessary to distribute digital terrestrial channels which have been converted to analogue channels. Compatible with all the MATV installations as the channels are distributed in the terrestrial band. It is not necessary to install individual receivers for each TV.

Characteristics

Very robust DVB-T decoder with an automatic reset system in the event of the detection of errors in order to reduce maintenance of the installation. Automatic detection of the audio mode. Decoding of mono, stereo and dual audio. Modulator in VSB vestigial side band, filtered by means of a SAW surface acoustic wave filter, designed to work with adjacent channels. Supplied with multiplexing bridge.

CODE	9050147		
MODEL	TO-559		
TV System	DVB-T → AM-TV PAL B/G CCIR	DVB-T → AM-TV PAL I UK	DVB-T → AM-TV PAL D/K OIRT
Audio	Mono / Stereo / Dual (Analogue)	Mono	Mono/Stereo DK3 Dual (Analogue)
COFDM receiver			
Band	BIII		UHF
Frequency range	MHz	170 - 230	470 - 862
Frequency step	KHz	0,25	
Input level	dBμV	45..100	
Range of capture	MHz	±0,5	
Output voltage	V _{cc}	+24	
	mA	60	
Mode	Mbaud	2 K, 8 K (DVB: EN 300744)	
Modulation		QPSK, 16 QAM, 64 QAM (DVB: EN 300744)	
F.E.C.		Auto, 1/2, 2/3, 3/4, 5/6, 7/8 (DVB: EN 300744)	
Guard interval		1/4, 1/8, 1/16, 1/32 (DVB: EN 300744)	
Diplexing through loss	dB±TOL	1.0 ±0,2	
RF Modulator			
Frequency range	MHz	46 - 862	
Frequency step	KHz	250	
Output channel		2 - 4 5 - 12 21 - 69 S1 - S41	R1 - R4 R5 - R12 21 - 69 S1 - S41
	Modulation		VSB
Output level	dBμV±TOL	85 ±2,0	
Output level adjustment	dB	>15	



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Carrier / noise ratio (C/N)	dB	>60			
Audio signal / noise ratio	dB	>45			
Chroma-luminance delay	ns	<10			
No lineality of luminance	%	<3			
Differential gain	%	<3			
Differential phase	°	<3			
Response to the 2T pulse	%	<2			
Multiplexing through loss	%	0.9 ±0,1			
General Features					
Return loss		>15			
Connectors		F female			
Power supply	V _{DC}	+3.3	+5.2	+12.0	+24.0
	mA	670	310	110	0+Preamp
Operating temperature	°C	-10..+65			
Room temp with/without fan		-10..+55/+45			
Protection index		IP 20C			
Units per packing		1			
Packing weight	Kg	1.10			
Packing dimensions	mm	265 x 165 x 40			

Programmable with PS-011