

SERIES

DIGITAL SAT EQUIPMENT 912-TP

QPSK-PAL transmodulators

912



TP-559

Description

Receiver of free-to-air digital satellite TV programs, or QPSK-PAL transmodulator, with a built-in modulator. Each module selects a TV program from a DVB-S digital transponder and converts it into a terrestrial band analogue TV channel. Multistandard modulator with analogue stereo audio (ITU-BS 707-4) or mono. Standards: B/G stereo, D/K stereo, and I mono.

Applications

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

Characteristics

Very robust DVB-S 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. Reinsertion of digital teletext in the analogue channel. Modulator in VSB vestigial side band, filtered by means of a SAW surface acoustic wave filter, designed to work with adjacent channels. Supplied with diplexing and multiplexing bridges and power cable.

CODE		9120129		
MODEL		TP-559		
TV system		DVB-S → AM-TV PAL B/G CCIR	DVB-S → AM-TV PAL I UK	DVB-S → AM-TV PAL D/K OIRT
Audio		Mono/Stereo Dual (Analogue)	Mono	Mono/Stereo DK3 Dual (Analogue)
QPSK reception				
Frequency range	MHz	950 - 2,150		
Frequency step	MHz	1		
Input level	dBμV	38 .. 83		
	dBm	-70 .. -25		
Range of capture	MHz	±5		
LNB power supply	V---	+12		
	mA	350 máx.		
Symbol rate	Mbaud	1 .. 45		
F.E.C.		Auto, 1/2, 2/3, 3/4, 5/6, 7/8 (DVB: EN 300429)		
Diplexing through loss	dB±TOL	1.0 ±0.2		
RF modulator				
Frequency range	MHz	46 - 894		
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		

Further specifications on the following page.



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CODE		9120129		
MODEL		TP-559		
Output level adjustment	dB	15		
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 $\cdots$	+3.3	+5.2	+12.0
	mA	530	310	110+LNB
Operating temperature	°C	-10..+65		
Room temperature with/without fan	°C	-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 the PS-003 programmer version 3.5 or later.