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DTKom power-doubling line broadband multiband amplifier DOCSIS, 1 input: Return Ch. + MATV

High-power multiband amplifier for CATV operator distribution. Expanded bandwidth (87 MHz-1006 MHz) makes it compatible with DOCSIS environments.

Equipped with switchable active or passive return channel (5 MHz-65 MHz), which allows its use in CoaxData networks.

Ref.451203

Art.Nr HV3040RK28 EAN13 8424450177587

Highlights

- Forward channel up to 1 GHz
- Passive or active return channel 5 MHz 65 MHz
- Designed using Power Doubling technology, which guarantees levels in the 129 dBµV range for terrestrial signals.
- Includes a high-performance low-power consumption switch-mode power supply
- High-screening Zamak chassis The design facilitates appropriate cooling

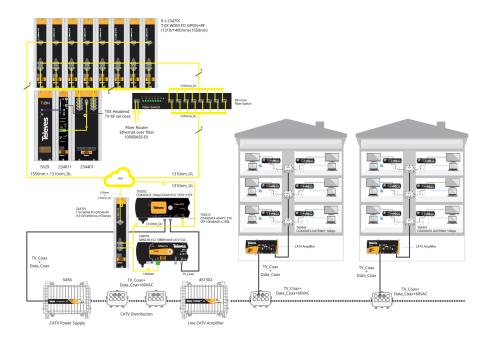
Main features

- Switched configurable gain (high/low), and high output level
- Equipped with equalizer, pre-equalizer and gain control
- Intuitive front cover, including adjustments and block diagram
- Output signal LED indicator

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Application example

(Click to see the picture)



CATV Network with CoaxData. Data and TV service (Ethernet via Fiber and Video Overlay) comes via fiber to the CoaxData master emplacement. From there, a data and TV coaxial network is established. Launch amplifiers which provide passive return path as Ref. 451302 and 451203, allow the necessary CoaxData duplex system.

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Technical specifications

Bands				MATV	C. Ret.
Frequency margin			Mhz	87 1006	5 65
Gain			dB	30 40 (selec.)	283
Max. output level	EN 50083 (IMD3)		2 tones -35dB	132 (72)	121 (61)
	DIN 45004B			129 (69)	118 (58)
	EN 50083 (IMD3)	dΒμV	2 Ch -60dB	126 (66)	115 (55)
	EN 50083 (IMD2)		2Ch -60dB	119 (59)	94(34)
	CTB, CSO, XMOD		D42Ch -60dB	112 (52)	-
Noise figure				8	6
Return loss input				18	12
Return loss output				18	12
Attenuator				0 20	-
Interstage attenuator			dB	0 20	-
Equalizer				0 10	0 20
Interstage equalizer				0 10	-
MATV Test input				- 20	
MATV Test output				-20	
				••	
Mains voltage/frequency			V~	99 - 253	
Total AC consumption			mA~ max.	235 @99V~ 115 @196V~	
			W	16	
Protection index			IP	20	
Operating temperature level			°C	-5 ··· +45	