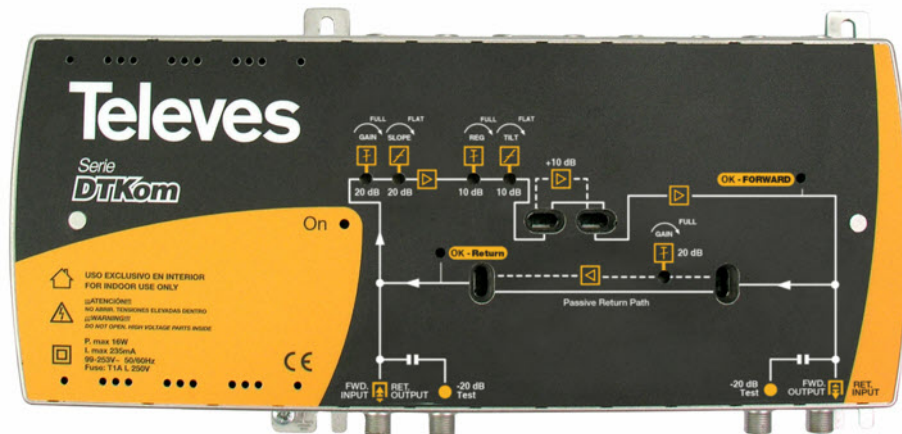


### Model: TV-451280

### Broadband Indoor Distribution Amplifier



### Features & Benefits

- Front panel variable gain and slope controls for easy adjustment.
- Two-way capability with a user selectable active/passive return path.
- Power doubling technology for distortion free, high output level operation.
- Externally accessible -20 dB input/output test ports provide convenient in-service performance monitoring.
- Optimized power consumption: Approx. 20% less when configured as 30dB FWD/-3dB RET for cost-effective and trouble-free operation.
- Cast chassis with large heat sinks providing exceptional heat dissipation.
- Exceptional conducted and radiated interference performance at full output level.
- Enclosure provides excellent shielding performance, reducing leakage and ingress.
- Built-in, high quality switched power supply.

### Description

The DTKom Series Amplifiers are professional quality, completely self contained, two way broadband indoor distribution amplifiers designed for multi-channel RF distribution systems where the input source is a cable drop or the output of a MATV/SMATV/CATV headend. Model TV-451280 is a high output level, power doubling amplifier, with an RF bandwidth of 1002MHz, equipped for 2-way operation with a 42/54MHz split that can operate in passive or active return configurations. These amplifiers have a user selectable gain of either 30dB or 40dB and 20dB attenuator slope control with 10dB regulator tilt control. The return gain is 28dB when in active mode. The gain and slope controls are located on the front panel for easy setup and adjustment with the provided tool. Two -20dB test points are provided to permit testing without interruption of service. The DTKom Series amplifiers incorporate a built in switched 120/230V power supply and are characterized by their exceptionally low power consumption for a long and trouble-free operating life. The cast Zamak chassis has been optimized to be compact and easy to install, while at the same time providing excellent heat dissipation, allowing operation at high ambient temperatures with no degradation of performance or reliability.

### Model: TV-451280

### Broadband Indoor Distribution Amplifier

Technical Specification	Units	Forward	Return
Frequency Range	MHz	54 - 1002	5 - 42
Gain	dB	30 / 40 Selec.	28
Flatness	dB	+/- 1.5	
Gain Control Range	dB	20	
Slope Control Range	dB	20	-
Reg Control Range	dB	10	
Tilt Control Range	dB	10	
Noise Figure	dB	8	6
Output Level (42 Ch)	dBmV	52	-
Output Level	dBmV	69	58
Composite Triple Beat (CTB)	dB	-60	-
Crossmodulation (XMOD)	dB	-60	-
2nd Order Composite (CSO)	dB	-60	-
Impedance	Ohms	75	
Input/Output Test Port Level	dB	-20 (+/-2)	
Input/Output Test Port Return Loss	dB	18	12
Operating Temperature Range	°F (°C)	14 - 113 (-10 - 45)	
Powering Requirements	V	120/230	
	mA	245/156	
	Hz	50/60	
Power Consumption	W	15.4	
Size (LxWxH)	In (mm)	11 x 5.6 x 1.9 (280 x 142 x 48)	
Shipping Weight	lbs (kg)	5.4 (2.4)	

Total # of Channels	Input Level dBmV (Gain 40 dB)	Output Level dBmV
12	18	58
24	15	55
36	13	53
48	12	52
72	10	50
96	9	49
144	8	48
158	7	47