

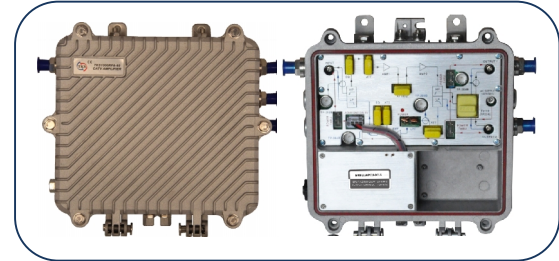


TKS1000RFA-RP-60

Outdoor Bi-directional CATV Amplifier

Product Description

TKS1000RFA-RP-60 outdoor trunk bidirectional amplifier is mainly used for bidirectional trunk transmission of CATV television image signal, digital TV signal, telephone voice signals and data (or compressed data) signal. Advanced and mature circuits, scientific and reasonable process structures and high quality materials, ensure the excellent performance. It is the first choice equipment to build large or middle-sized CATV bidirectional transmission network.



Features

- 1003MHz bandwidth design.
- Forward path: The pre-stage adopts GaAs MMIC, output stage adopts the newest imported high index power doubly module, achieve high output level, low distortion and high SNR.
- It is more convenient to debug because of the plug-in duplex filter, equalizer, attenuator, output tap and the scientific and reasonable on-line detection ports.
- The equipment can long time continuous work steadily under outdoor bad environmental condition. Because of the aluminum waterproof housing, high reliability switching power supply and strict lightning protection system.

Technical Specification

Forward Path			
Frequency range	MHz	45 /87 ~ 1003	
Rated gain	dB	30	38
Rated input level	dB μ V	72	70
Rated output level	dB μ V	102	108
Flatness in band	dB	± 0.75	± 0.75
Noise figure	dB	≤ 10	≤ 10
Return loss	dB	≥ 16	
C/CTB	dB	≥ 70	≥ 66
C/CSO	dB	≥ 67	≥ 64
Group delay	ns	≤ 10 (112.25 / 116.68 MHz)	
Signal-AC Ratio	%	< 2	
Gain stability	dB	$-1.0 \sim +1.0$	

Return Path		
Frequency range	MHz	5 ~ 65
Rated gain	dB	up to 24
Maximum output level	dB μ V	110
Flatness in band	dB	$\leq \pm 0.75$
Noise figure	dB	≤ 8
Return loss	dB	≥ 16
Signal-AC Ratio	%	< 2

General Performance		
Characteristic impedance	Ω	75
Power supply voltage	V	AC 35 ~ 90V
Power consumption	W	≤ 20
Dimension	mm	220 x 205 x 65

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