

DiGiTAL-1™

1GHz CATV Digital Splitter



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1GHz DiGiTAL-1™ CATV Digital Mini Amplifier Passive Return

DiGiTAL-1™ Amplifier have been engineered and manufactured to provide the highest performance and reliability. They ensure the best quality signal distribution possible. The DiGiTAL-1™ engineering team has a proven 20 year track record in the Broadband Industry and offers the best class in mechanical and consistent RF performance with high quality components and strict QC measures.

Features and Benefits

- SCTE compliant mechanical and electrical performance ensures consistent integration and performance.
- Cast aluminum powder coated housing tested to withstand all seasonal elements (2000 hours salt fog).
- Pressure sealed and waterproof F-ports prevent moisture migration and condensation over temperature and climate change.
- Premium performance normalized sub-components offer very high resistance to spurious signals and second harmonics (greater than -45dB).
- Surge resistant up to 6kV per IEEE C62.41-1991 *B3 (combo wave 6000V, 3kA)
- Beryllium copper 360 degree seizure provides repeated superior connections (tested to SCTE requirements for outdoor products)
- 100 dB RFI shielding guarantees signals free from interference and localized noise
- UL approved power adaptor

GENERAL	DiGi-15-1P	DiGi-15-1A	DiGi-15-4P
Impedance	75 Ohm	75 Ohm	75 Ohm
Environment	100% Humidity	100% Humidity	100% Humidity
Temperature	-40/+60C (+/- 0.5dB)	-40/+60C (+/- 0.5dB)	-40/+60C (+/- 0.5dB)
Return Loss	18 dB	18 dB	18 dB
Noise Figure	3.5 dB	3.5 dB	3.5 dB
Surge Resistance	6kV @ 3kA (B3)	6kV @ 3kA (B3)	6kV @ 3kA (B3)

Model Variations	DiGi-15-1P	DiGi-15-1A	DiGi-15-4P
Forward Gain Per Port	15dB (+/- 1.0dB)	15dB (+/- 1.0dB)	8dB (+/- 1.0dB)
Reverse Insertion Loss	-1dB (+/- 0.5dB)	+10dB (+/- 1.0dB)	-7dB (+/- 0.5dB)
Port Isolation 15-42MHz	N/A	N/A	N/A
5-14MHz & 54-1000MHz	N/A	N/A	N/A

FORWARD BAND	DiGi-15-1P	DiGi-15-1A	DiGi-15-4P
Frequency	54-1000 MHz	54-1000 MHz	54-1000 MHz
Flatness	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB
Output Rating	25dBmv @ 110 ch	25dBmv @ 110 ch	25dBmv @ 110 ch
Hum	<-75dBc	<-75dBc	<-75dBc
X Mod	<-75dBc	<-75dBc	<-75dBc
CSO	<-62dBc	<-62dBc	<-62dBc
CTB	<-75dBc	<-75dBc	<-75dBc
Group Delay	<20ns @ 50-100MHz	<20ns @ 50-100MHz	<20ns @ 50-100MHz
	<5ns @ 101-1000MHz	<5ns @ 101-1000MHz	<5ns @ 101-1000MHz

REVERSE BAND	DiGi-15-1P	DiGi-15-1A	DiGi-15-4P
Frequency	5-42 MHz	5-42 MHz	5-42 MHz
Flatness	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB
Group Delay	<20ns (+/- 10ns)	<20ns (+/- 10ns)	<20ns (+/- 10ns)



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1GHz DiGiTAL-1™ CATV Digital Mini Amplifier Active Return

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- RF Input/PC Modem output, 75Ω input for antenna and cable signals. 1-PC/ Modem output Non-Amplifier to eliminate a need for a 1X2 RF splitter
- All 3/8" -32UNEF/B SCTE Compliant Weather Sealer Connectors
- Die-Cast aluminum and powder coated weather sealed case can withstand the hardest of weather.
- Bi-directional amplification provides 15dB of gain in a CATV or antenna system. Output connector is F-type
- 54-1000MHZ forward bandwidth with 5MHz to 42MHz reverse bandwidth.
- 6kV/B3 ANSI81-2003/IEEE62 Circuit.

GENERAL	DiGi-8P+
Impedance	75 Ohm
Return Loss	20dB
Noise Figure	3.6dB
Surge Resistance	6kV @ 3kA (B3)
Forward Gain Per Port	3.3dB
Reverse Insertion Loss	-11.7dB
Port Isolation 15-42MHz	30dB
Port Isolation 54-1000MHz	25dB

FORWARD BAND	DiGi-8P+
Frequency	5 - 1000MHz
Flatness	+/- 0.5 dB
Output Rating	13dBmv @ 80ch
Hum	<-75dBc
X Mod	<-75dBc
CSO	<-62dBc
CTB	<-75dBc
Group Delay	<20ns @ 50-60MHz
	<5ns @ 60-1000MHz

REVERSE BAND	DiGi-8P+
Frequency	5-42 MHz
Flatness	+/- 0.5 dB
Group Delay	<20/1MHz @ 5-6.5MHz
	<5/1MHz @ 6.5-40MHz
	<20/1MHz @ 40-42MHz

