

DiGiTAL-1™

1GHz CATV Digital Splitter

DiGiTAL-1™

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.

- Mini size with excellent performance and low power consumption.
- Compact design based on patented power isolation.
- E-Phemt GaAs technology.
- Compliant with ANSI/SCTE 161 2009.
- Machined brass F ports with 360°, 4 prong centre contact with pull-off force 650g.
- Zink allow housing. Nickel plated.
- Waterproof F ports to meet IEC529, IP67 standards (15psi).
- Surge withstanding test procedure complies with ANSI/SCTE 161 2009.
- 1KV blocking capacitors on all RF ports for DC/hum protection.
- Low noise figure.
- Supports both local and remote powering.
- Regulator IC allows wide input voltage range 9-20VDC.
- LED power indicator.
- Low power consumption: 95mA ± 10mA(1.2W).
- 12VDC power adapter (supplied as standard) is UL/cUL listed and compliant with IEEE587 C62.41-1991 Cat B3 surge withstanding.



Model No:	DiGi-AMP-P1	DiGi-AMP-P4
Number of Output Ports	1	4
Number of RF/Power Ports (local power)	1	1
Number of Power Ports (DC)	1	1
Surge Withstand (6KV)	All RF ports meet IEEE587 C62.41-1991 Cat A3 6KV/200 A ring wave test standard (optionally Cat B3 6KV/3KA combination wave test)	
Rated Operating Temperature	-40 °C~+60 °C	-40 °C~+60 °C
Housing Dimensions (L*W*H)(mm)	62 X 51.5 X 16	86.2 X 54.7 X 20
Weight (g) ±5g	53	114
Power 12VDC	95mA±10mA	95mA±10mA

Forward Path Specifications	DiGi-AMP-P1	DiGi-AMP-P4
Reference Input Level (dBm)	-6	-6
Pass Band (MHz)	54 - 1000	54 - 1000
Gain (Input to Output) (dB)	15 ± 1	8 ± 1
Flatness (dB)	±0.5	±0.5
Return Loss (-dB)	18	18
Noise Figure (db)	3	3
Channel Loading	77analog + 33digital	77analog + 33digital
Rated Output Level (dBmV)	30	30
Composite Triple Beat (-dB)(min)	73	73
Composite Second Order(-dB)(min)	68	70
Cross Modulation (XMOD)(-dB)	75(typ)	75(typ)
Group Delay (3.58MHz span), (ns) min	20 (2CH)	20 (2CH)
	10 (3CH)	10 (3CH)
	5 (Other CH)	5 (Other CH)
Isolation (Input to DC Port) (-dB)	90(typ)	90(typ)
RFI Shielding (-dB) (typ)	130	130

Reverse Path Specifications	DiGi-AMP-P1	DiGi-AMP-P4
Reference Input Level (dBm)	-6	-6
Pass Band (MHz)	5 ~ 42	5 ~ 42
Return Path Insertion Loss (-dB, Max)	1.6	8.1
Flatness (dB)	±0.5	±0.5
Return Loss (-dB)(min)	18	18
Group Delay (1MHz span), (ns) min	20 (5 ~ 42MHz)	20 (5 ~ 42MHz)
	5 (10 ~ 36MHz)	5 (10 ~ 36MHz)
Inter-Modulation (-dB)(min)	105	105
Second Order (-dB)(min)	110	110

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- Mini size with excellent performance and low power consumption.
- Compact design based on patented power isolation.
- E-PHEMT GaAs technology.
- Compliant with ANSI/SCTE 161 2009.
- F ports with 360°, 4 prong centre contact with pull-off force 650g.
- Zinc alloy housing. Nickel plated.
- Waterproof F ports to meet IEC529, IP67 standards (15psi).
- Surge withstanding test procedure complies with ANSI/SCTE 161 2009.
- 1KV blocking capacitors on all RF ports for DC/hum protection.
- Low noise figure.
- Supports both local and remote powering.
- Regulator IC allows wide input voltage range 9 ~ 20VDC.
- LED power indicator.
- Low power consumption: 160mA ± 10mA(1.6W).
- 12VDC power adapter (supplied as standard) is UL/cUL listed and compliant with IEEE587 C62.41-1991 Cat B3 surge withstanding.



Model No:	DiGi-AMP-A1
Number of Output Ports	1
Number of RF/Power Ports (local power)	1
Number of Power Ports (DC)	1
Surge Withstand (6KV)	All RF ports meet IEEE587 c62.41-1991 Cat A3 6KV/200 A ring wave test standard (optionally Cat B3 6KV/3KA combination wave test)
Rated Operating Temperature	-40 °C~+60 °C
Housing Dimensions (L*W*H)(mm)	86.2 x 42.6 x 20
Weight (g) ±5g	103.2
Power	160mA±10mA

Forward Path Specifications	DiGi-AMP-A1
Reference Input Level (dBm)	-6
Pass Band (MHz)	54 - 1000
Gain (Input to Output) (dB)	10 ± 1
Flatness (dB)	±0.5
Return Loss (-dB)	18
Noise Figure (db)	3
Channel Loading	77analog + 33digital
Rated Output Level (dBmV)	30
Composite Triple Beat (-dB)(min)	73
Composite Second Order(-dB)(min)	68
Cross Modulation (XMOD)(-dB)	75(typ)
Isolation (Input to DC Port) (-dB)	90(typ)
RFI Shielding (-dB) (typ)	130

Reverse Path Specifications	DiGi-AMP-A1
Reference Input Level (dBm)	-6
Pass Band (MHz)	5 - 42
Gain (Input to Output) (dB)	10 ± 1
Flatness (dB)	±0.5
Return Loss (-dB)(min)	18
Noise Figure (dB)(typ)	6
Group Delay (1MHz span), (ns) min	20 (5-42MHz)
	5 (10-36MHz)
Inter-Modulation (-dB)(min)	105
Second Order (-dB)(min)	110