CATV Drop Amplifier

PROAMP-4AR
PROAMP-8AR
PROAMP-4AR-N
PROAMP-8AR-N
PROAMP-4PR
PROAMP-8PR
PROAMP-4PR-N
PROAMP-8PR-N
PROAMP-4ARB
PROAMP-8ARB

SCTE Compliant Ports [7]
- Nickel Plated C360 Brass
- Patented Round Pin Design with 200 gram Pin Retention
- Moisture Sealed

Multi-Directional Ground Block [2]

RF Input / CATV Source [6]
- Maintains High Input Return Loss with Power Off (Patent Pending)

RF Output / DC Input Port
FOR USE WITH THE OPTIONAL POWER INSERTER [4]

Multi-Directional LED Power Indicator [5]

Dual Mounting Tabs [1]
(Horizontal & Vertical)

VoIP/Modem Port [8]

Dedicated DC Port / PWR IN Supplied Power Supply [3]

Weatherproof Housing Design
- Pressure Sealed Backplate with RFI Shielding & Moisture Gaskets
- Fits Most Standard Premise Boxes
- A360 Alumimum Alloy
- Powdercoat Finish

ENERGY STAR — **UL PENDING** — RoHS compliant

FEATURES:

- **Maintains High Input Return Loss with Power Off (Pat.Pending)**
- **VoIP/Modem Port**
- **Forward Unity Gain**
- **Passive or Unity Gain Return Models**
- **SCTE Compliant Moisture Sealed Ports**
- **Patented Round Pin Design with 200 gram Pin Retention**
- **6 kV Surge Protection**
- **Multi-Directional Ground Block**
- **5 & 9 Output Port Models**
- **Weatherproof Housing Design**
- **Dual Mounting Tabs (Horizontal & Vertical) Fits Most Premise Boxes**
- **Powered Dedicated DC Power Port or an RF Output Port (Port 1)**
- **Energy Star Rated Power Supply with LED Power Indicator**

Holland/TFC introduces a new series of Amplifiers to address the recent needs of CATV operators. A rugged design, excellent RF performance and dual mounting tabs make this Amplifier the best choice for MSO's. This series is designed for easy installation as well as reliable, long-term service.

Holland Electronics - 2935 Golf Course Drive / Ventura, CA 93003 / Phone: 800-628-4511 / www.HollandElectronics.com
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CATV Drop Amplifier

ELECTRICAL	PROAMP-4AR	PROAMP-8AR	PROAMP-4PR	PROAMP-8PR
FORWARD	Four Port	Eight Port	Four Port	Eight Port
Frequency Range	54-1002 MHz		54-1002 MHz	
Frequency Response	+/- 1 dB		+/- 1 dB	
Gain (54-1002MHz)	0 dB		0 dB	
VoIP Port Insertion Loss	3.5 dB		3.5 dB	
Output Impedance	75 ohm		75 ohm	
Return Loss - Input	≥20 dB		≥20 dB	
Return Loss - Output	≥20 dB		≥20 dB	
Channel Loading	79 NTSC analog + 33, 256 / QAM digital @4 dBmv / Ch.All / channels flat			
Rated Input Level	10 dBmv		10 dBmv	
CTB	-75 dBc		-74 dBc	
XMOD	-75 dBc		-75 dBc	
CSO	-62 dBc		-62 dBc	
HUM Modulation	-90 dBc		-90 dBc	
Noise Figure	5 dB typical		5 dB typical	
Group Delay	< 20nSec (-3.58 MHz span) Ch. 2, <9nSec (-3.58 MHz span), Ch. 3, <5 nSec (-3.58MHz span) Ch. 4+		< 20nSec (-3.58 MHz span) Ch. 2, <10nSec (-3.58 MHz span), Ch. 3, <5 nSec (-3.58MHz span) Ch. 4+	
Out to Out Isolation (54-1002 MHz)	25 dB typical		25 dB typical	
RF Port to Power Isolation	100 dBc		100 dBc	
RETURN	Four Port	Eight Port	Four Port	Eight Port
Frequency Range	5-42 MHz		5-42 MHz	
Frequency Response	+/- 0.5 dB		+/- 0.5 dB	
Gain (54-1002MHz)	0 dB		-12.0 dB	-15.0 dB
VoIP Port Insertion Loss	3.5 dB		3.5 dB	
Return Loss - Input	≥20 dB		≥20 dB	
Return Loss - Output	≥20 dB		≥20 dB	
Group Delay	<5 nSec (8 MHz, to 39 MHz, 1.0 MHz span) <20 nSec (5 MHz to 42 MHz, 1.0 MHz span)		<5 nSec (10 MHz, to 36 MHz, 1.0 MHz span) <20 nSec (5 MHz to 42 MHz, 1.0 MHz span)	
MECHANICAL				
Dimensions	W:179mm x D:71mm x H:43mm		W:179mm x D:71mm x H:43mm	
Mounting	Horizontal & Vertical		Horizontal & Vertical	
Ground Block Count	1 - Bi-Directional		1 - Bi-Directional	
Housing & Cover Material	A360 Aluminum Alloy		A360 Aluminum Alloy	
Finish / Plating Type	Powdercoating		Powdercoating	
Sealing	Gasket 1-moisture 1 EMI/RFI		Gasket 1-moisture 1 EMI/RFI	
F port Material	C360 Brass		C360 Brass	
F port Plating	Nickel		Nickel	
F port Spacing	1.0” min.		1.0” min.	
F port Torque	60 in. lbs. min.		60 in. lbs. min.	
F port Pin Retention (RG-6 Center Pin)	200 grams min.		200 grams min.	
Power Requirements	12 VDC @ 3.6 Watts		12 VDC @ 2.4 Watts	
Operating Temperature	-40°C to 60°C		-40°C to 60°C	
Surge Withstand	Input Port - IEEE C62.41-1991 Category B-3 Combo Wave, 6kV, 3kA Output Ports - IEEE C62.41-1991 Category A-3 Ring Wave, 6kV, 0.5kA		Input Port - IEEE C62.41-1991 Category B-3 Combo Wave, 6kV, 3kA Output Ports - IEEE C62.41-1991 Category A-3 Ring Wave, 6kV, 0.5kA	