

4&8 PORT DROP AMPLIFIER W/ PHONE PORT

[AMP-x-x/x-x]

Cable Products, Drop Amplifiers

Taikan
ESTD. 1973

Features

- 5–1218 MHz Bandwidth
- Diplex Filters Available 42/54 & 85/102 MHz
- 8 RF Outputs, 1 Passive Home Phone Port or
- 4 RF Outputs, 1 Passive Home Phone Port (option)
- 360° Pin Structure / Push / Pull Force \geq 100 g
- LED Power Indicator, Power Adapter Included
- Corrosion-Resistant Epoxy Coated 360° Aluminum
- Upstream & Downstream Unity Gain
- SCTE Compliant F-Port and Surge Withstand
- Compact Design for Limited Installation Space



***Image is for reference purposes only and is not representative of the final product

Ordering Information

AMP - x - x/x - x

U: US Power Adapter 110V; **E:** European Power Adapter 220V

42 / 54; 85 / 102

4 (4 RF Port 1 home phone); **8** (8 RF Port, 1 home phone)

Model Number	Unit	Unit Dimensions	Unit Weight
AMP-4-x/x-x	1 pc	8.4 x 12.5 x 4.6 cm / 3.3 x 4.9 x 1.8 in.	0.3 kg / 0.7 lbs
AMP-8-x/x-x	1 pc	8.0 x 14.5 x 4.6 cm / 3.1 x 5.7 x 1.8 in.	0.4 kg / 0.8 lbs

Forward Specifications

	AMP-4-x/x-x (Typ)	AMP-8-x/x-x (Typ)	Units
Forward Path Frequency	54/102 - 1218	54/102 - 1218	MHz
Typical Gain (<1000 MHz)	0 \pm 0.5	0 \pm 0.5	dB
(1000-1218 MHz)	0 \pm 0.75	0 \pm 0.75	dB
Input Level	14	14	dBmV
Insertion Loss (<1000 MHz)	3.5 \pm 0.5	3.5 \pm 0.5	dB
(Passive port) (1000-1218 MHz)	5	5	dB
Flatness	\pm 1.0	\pm 1.0	dB
CTB ⁽¹⁾	-75	-75	dB
CSO ⁽¹⁾	-65	-65	dBc
Noise Figure ⁽²⁾	5	5	dBc
Group Delay	20	20	ns

Return Specifications

	AMP-4-x/x-x	AMP-8-x/x-x	
	(Typ)	(Typ)	Units
Return Path Frequency	5 - 42/85	5 - 42/85	MHz
Gain	0±1	0±1	dB
Insertion Loss (Passive Port)	3.5 ± 0.5	3.5 ± 0.5	dB
Flatness	± 0.5	± 0.5	dB
DSO ⁽³⁾	-70	-70	dBc
DTO ⁽³⁾	-60	-60	dBc
Noise Figure ⁽²⁾	5	5	dB
Group Delay	20	20	ns

General Specifications

	(Typ)	(Typ)	Units
Impedance	75	75	Ohm
Return Loss	20	20	dB
Isolation (5-42/85 MHz 54/102-1000 MHz)	25	25	dB
(1000-1218 MHz)	24	24	dB
Hum Modulation	-70	-70	dBc
Unterminated Oscillation ⁽⁴⁾	None	None	dBm
Power Supply Noise ⁽⁵⁾	-50 / -80 / -100	-50 / -80 / -100	
RFI Isolation	-100	-100	dBc
Surge Withstand Capability	6kV 3kA, 8/20us Combo Wave IEEE 587 (C62.41-1991) Category B3 Standard 6kV 200A, 0.5-100 KHz, Ring Wave IEEE 587 (C62.41-1991) Category A3 Standard.		
Operating Temperature	-40 to +60 °C (-40 to 140 °F)		
DC Power Consumption	330 mA (4 Port) 370mA (8 Port)		
Port Diode Protection	Yes		
Waterproof	Withstand 15 psi for 1 minute		

Notes:

- (1) 14dBmV/ch flat input level (75 NTSC) + digital at 6dB setback (after 550 MHz)
- (2) Noise Figure is specified with splitter losses excluded.
- (3) As per SCTE115, 13&19MHz channels at 55 dBmV/ch output, w/c of DSO at 6/32MHz and DTO at 7/25MHz
- (4) No oscillations should occur with IN and OUT ports terminated and unterminated
- (5) Max for (DC-500kHz) / (500kHz-1.5MHz) / (1.5MHz-1.2GHz). Measure at RF OUT while using power inserter