

DROP AMPLIFIERS

Passive Forward & Active Return

PCT-MA2-RA10



Innovation for the Last Mile®



INTRODUCTION

PCT's Multimedia Drop Amplifiers provide low noise amplification of broadband signals for subscriber drop installations.

Features & Benefits

- ✓ Passive forward path and active return path amplifier for specialized applications requiring additional return path gain
- ✓ Patented DSM seizure technology used in all F ports
- ✓ 6kV surge withstand on all ports
- ✓ Lightweight powder coated and weather sealed housing for superior corrosion protection

Specifications

Parameters	Unit	PCT-MA2-RA10 Details
Forward Path		
Forward Path Frequency Range	MHz	54 to 1002
Passive Forward Insertion Loss	dB	≥ -1.5
Flatness (Peak-to-Valley)	dB	± 0.5
Return Loss	dB	≥ 18
Group Delay	ns	54 to 60 MHz: < 20 / 3.58 MHz 60 to 1002 MHz: < 5 / 3.58 MHz
Return Path		
Return Path Frequency Range	MHz	5 to 42
Gain	dB	10
Gain Tolerance	dB	± 1
Flatness (Peak-to-Valley)	dB	± 0.5
Return Loss	dB	≥ 18
Rated Output Level	dBmV	50 @ 2 channels
Noise Figure (Typical)	dB	5.5
Group Delay	ns	5 to 10 MHz, 36 to 42 MHz: < 20 / 1 MHz 10 to 36 MHz: < 5 / 1 MHz
Discrete Second Order Distortions ¹	dBc	< -68
Discrete Third Order Distortions ¹	dBc	< -62
Cross Modulation	dBc	< -62
Hum Modulation	dBc	< -75
General		
Input Voltage	VDC	12 to 16
Power Consumption, Max	mA	200
RFI Shielding	dB	≥ 110
Nominal Impedance	Ohm	75
Operating Temperature	°C (°F)	-40 to +60 (-40 to 140)
Surge Withstand	-	RF ports and power adapter: Conforms to ANSI/SCTE 81 2012; IEEE C62.41 Cat. B3 Waveform Power port: Conforms to ANSI/SCTE 81 2012; IEEE C62.41 Cat. A3 Waveform
F-Port Tightening Torque Withstand	in lbs	> 60
F-Port	-	≥ ±15 PSIG; Patented DSM® Digital Seizure Mechanism
Regulatory Standards	-	RoHS Compliant. CE Compliant. (EN50083-2:2006)

Note: 1) 2 channels @ rated output.

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