

DROP AMPLIFIERS

Ultra Mini and Mini

PCT-MA2-M, PCT-MA2-2P, PCT-MA2-4P, PCT-MA2-8P



Innovation for the Last Mile™



**SMALL IN SIZE
BIG ON
PERFORMANCE**



Only 91 x 89 mm
(3.6 x 3.5 in.)



ADVANCED FEATURES

After setting the industry standard for performance and price, we're giving you more space to relieve congested installs and the ability to add new services through existing NIDs.

- ✓ Compact and robust package
- ✓ IEEE B3 6kV surge withstand on all RF ports, tested in conformance with ANSI/SCTE 81 2003
- ✓ PCT's patented DSM seizure in all "F" ports for superior center conductor retention, reduced common path distortion, and excellent electrical performance
- ✓ Smallest model (PCT-MA2-M) measures only 3.6 x 3.5 in (W x H)

GENERAL SPECIFICATIONS

Bandwidth	54 to 1002 MHz
Impedance	75 Ohms (nominal)
Return Loss	≥ 18 dB
Shielding Effectiveness	-110 dB minimum
Operating Temperature	-40 to +140 °F (-40 to +60 °C)

Ordering Information

- PCT-MA2-M Mini Drop Amplifier, 1-Port, Passive Return, 15 dB, w/out Power Inserter
- PCT-MA2-MPI Mini Drop Amplifier, 1-Port, Passive Return, 15 dB, w/ Power Inserter
- PCT-MA2-2P Drop Amplifier, 2-Port, Passive Return, 11.5 dB, w/ Power Inserter
- PCT-MA2-4P Drop Amplifier, 4-Port, Passive Return, 8 dB, w/ Power Inserter
- PCT-MA2-8P Drop Amplifier, 8-Port, Passive Return, 4 dB, w/ Power Inserter
- PCT-MA2-2PN Drop Amplifier, 2-Port, Passive Return, 11.5 dB
- PCT-MA2-4PN Drop Amplifier, 4-Port, Passive Return, 8 dB
- PCT-MA2-8PN Drop Amplifier, 8-Port, Passive Return, 4 dB
- PCT-MA2-RA Drop Amplifier, 1-Port, Active Return Only, w/ Power Inserter

Purchase from:



www.multicominc.com

800-423-2594

407-331-7779



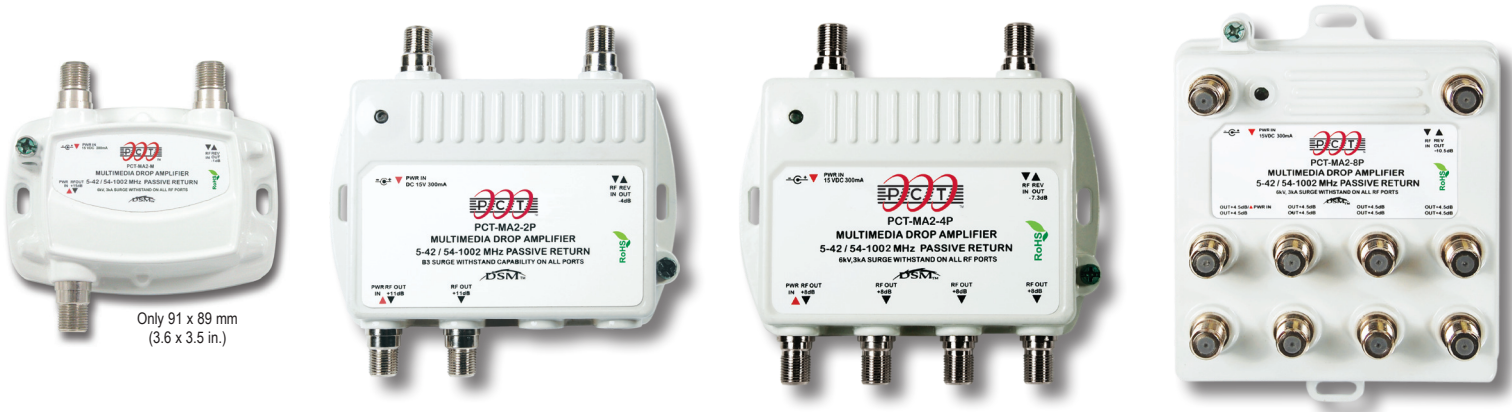
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Specifications

			PCT-MA2-M	PCT-MA2-2P	PCT-MA2-4P	PCT-MA2-8P
Parameters	Unit					
Downstream						
Forward Path Frequency Range	MHz				54 - 1002	
Amplification Device	--				RF Amplification IC - GaAs HBT	
Gain	Typical	dB	15	11.5	8	4
	Tolerance				+1 / -1	
Flatness	Peak-to-Valley	dB			1	
Rated Output Level ¹		dBmV	25	21.5	18	14
Return Loss		dB			≥ 18	
Isolation ²			n/a		22	
Group Delay	54 to 60 MHz				< 20 / 3.58	
	60 to 66 MHz	dB			< 10 / 3.58	
	66 to 1002 MHz				< 5 / 3.58	
Noise Figure		dB			2.7 Avg (4.0 max)	
Composite Second Order Distortions		dBc			< -62	
Composite Triple Beat Distortions		dBc			< -79	
Cross Modulation Distortions		dBc			< -79	
Hum Modulation		dBc			< -75	
Return path						
Return Path Frequency Range	MHz				5 to 42	
Insertion Loss	5 to 40 MHz		< 1			
	40 to 42 MHz	dB	< 1.5	< 4.6	< 8	< 11.5
Flatness	Peak-to-Valley	dB	1			
Return Loss		dB	≥ 18			
Isolation ²		dB	n/a		24	
Group Delay	5 to 10 MHz				< 20 / 1	
	10 to 36 MHz	dB			< 5 / 1	
	36 to 42 MHz				< 20 / 1	
Hum Modulation		dBc			< -75	
General						
Power Consumption		W			< 5	
RFI Shielding		dB			≥ 110	
Nominal Impedance		Ohm			75	
Operating Temperature		°F (°C)			-40 to +140 °F (-40 to +60 °C)	
Surge Withstand	all RF Ports	-			IEEE C62.41-1991 Category B3 Surge Withstand (6 kV, 3 kA, 1.2/50 μs - 8/20 μs Combination Wave), Tested in conformance with ANSI/SCTE 81 2003.	
F-Port Torque		-			60 in-lbs tightening and loosening	
F-Port		-			Conforms to ANSI/SCTE 01 2006, sealed; able to hold 15 PSI; Patented DSM Seizure Mechanism	
Regulatory Standards		-			RoHS Compliant. CE Compliant. (EN50083-2:2006)	

Notes: 1 79 analog channels (54 to 552 MHz) at 10 dBmV / ch. + 33 digital channels (552 to 750 MHz) at -6 dBc (total channel power), relative to analog carriers. All channels flat.
2 Output-to-Output

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