

ULTRA MINI

MA2 DROP AMPLIFIER

ADVANCED FEATURES

- Compact but robust package
- IEEE B3 6kV surge protection
- Patented DSM seizure in all "F" ports
- 5-year warranty
- Actual Size - 3.6 x 3.5 in (W x H) (PCT-MA2-M)

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
PCT-MA2-M.....	Mini Drop Amplifier, 1-Port, Passive Return, 15 dB, without Power Inserter
PCT-MA2-MPI	Mini Drop Amplifier, 1-Port, Passive Return, 15 dB, with Power Inserter
PCT-MA2-2P	Drop Amplifier, 2-Port, Passive Return, 11.5 dB, with Power Inserter
PCT-MA2-4P	Drop Amplifier, 4-Port, Passive Return, 8 dB, with Power Inserter
PCT-MA2-8P	Drop Amplifier, 8-Port, Passive Return, 4 dB, with 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, with Power Inserter



PCT-MA2-M

Small in size.

Big on performance.

ULTRAPERFORMANCE

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.

*Call +1.800.306.8948
for more information*



Specifications subject to change without notice.
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PRODUCTSPECS

		PCT-MA2-M	PCT-MA2-2P	PCT-MA2-4P	PCT-MA2-8P	PCT-MA2-RA
Forward Path Specifications						
Frequency Range	MHz	54 to 1002	54 to 1002	54 to 1002	54 to 1002	54 to 1002
Amplifier Device		RF Amplification IC - GaAs - MESFET				
Gain/Loss (Typical)	dB	15	11.5	8	4	< -1
Gain Tolerance	dB	+1 / -1	+1 / -1	+1 / -1	+1 / -1	N/A
Flatness (peak-to-valley)	dB	1	1	1	1	N/A
Rated Output Level ¹	dBmV	25	21.5	18	14	N/A
Return Loss	dB	≥ 18.0	≥ 18.0	≥ 18.0	≥ 18.0	≥ 18.0
Isolation ²	dB	N/A	24	24	24	N/A
Group Delay (54 to 60 MHz)	ns	< 20 / 3.58 MHz	< 20 / 3.58 MHz	< 20 / 3.58 MHz	< 20 / 3.58 MHz	< 20 / 3.58 MHz
Group Delay (60 to 66 MHz)	ns	< 10 / 3.58 MHz	< 10 / 3.58 MHz	< 10 / 3.58 MHz	< 10 / 3.58 MHz	< 10 / 3.58 MHz
Group Delay (66 to 1002 MHz)	ns	< 5 / 3.58 MHz	< 5 / 3.58 MHz	< 5 / 3.58 MHz	< 5 / 3.58 MHz	< 5 / 3.58 MHz
Noise Figure	dB	2.7 avg (4 max)	2.7 avg (4 max)	2.7 avg (4 max)	2.7 avg (4 max)	N/A
CSO Distortions	dBc	< -62	< -62	< -62	< -62	N/A
CTB Distortions	dBc	< -79	< -79	< -79	< -79	N/A
Cross Modulation Distortions	dBc	< -75	< -75	< -75	< -75	N/A
Hum Modulation	dBc	< -75	< -75	< -75	< -75	N/A

Return Path Specification

Frequency Range	MHz	5 to 42	5 to 42	5 to 42	5 to 42	5 to 42
Insertion Loss/Gain (5 to 40 MHz)	dB	≤ -1	≤ -4.6	≤ -8	≤ 11.5	≤ 15
Insertion Loss/Gain (40 to 42 MHz)	dB	≤ -1.5	≤ -4.6	≤ -8	≤ 11.5	≤ 15
Flatness (peak-to-valley)	dB	1	1	1	1	1
Return Loss	dB	≥ 18.0	≥ 18.0	≥ 18.0	≥ 18.0	≥ 18.0
Isolation ² (5 to 42 MHz)	dB	0	24	24	24	N/A
Group Delay (5 to 10 MHz)	ns	< 20/1 MHz	< 20/1 MHz	< 20/1 MHz	< 20/1 MHz	< 20/1 MHz
Group Delay (36 to 42 MHz)	ns	< 20/1 MHz	< 20/1 MHz	< 20/1 MHz	< 20/1 MHz	< 20/1 MHz
Group Delay (10 to 36 MHz)	ns	< 5/1 MHz	< 5/1 MHz	< 5/1 MHz	< 5/1 MHz	< 5/1 MHz
Hum Modulation	dBc	< -75	< -75	< -75	< -75	< -75

General Specifications

RFI Shielding	dB	> 100	> 100	> 100	> 100	> 100
Nominal Impedance	Ohm	75	75	75	75	75
Surge Withstand Capability (all RF ports)	V	Conforms to ANSI/SCTE 81 2003, IEEE C62.41 Cat. B3 Waveform				
Operating Temperature	°C	-40 to +60	-40 to +60	-40 to +60	-40 to +60	-40 to +60
F-ports		Conforms to ANSI/SCTE 01 2006; sealed; able to hold 15 psi				
Total Power Consumption (transformer + amplifier)	W	< 5	< 5	< 5	< 5	< 5

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

