MoCA AMPLIFIERS PCTMA2F-11P, PCTMABF-11A, PCTMABF-14P



Innovation for the Last Mile



STANDARD FEATURES

PCT's multimedia MoCA drop amplifier series provide ultra-low noise amplification of broadband signals for subscriber drop installations, and the built-in LPF filter ensures the MoCA signals (1125 to 1525 MHz) are constrained to the home network.



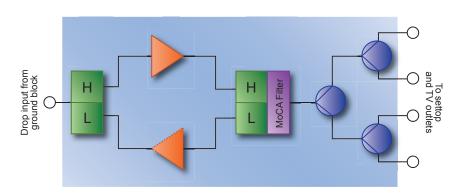
MoCA Connected Home

Features and Benefits

- Integrated MoCA filter
 - Keeps MoCA signals within the home network and blocks them from going up the drop
 - Reduces the loss of MoCA passband frequencies (1125 to 1525 MHz) within the in-home network
- Patented DSM® seizure technology provides increased spring retention for better surface contact.
 - Patented design to increase spring retention for better surface contact-even after repeated entry across maximum to minimum center conductor diameters
 - Gold-plated, beryllium copper construction for better corrosion resistance, impedance matching, and less common path distortion
- Drop amplifiers available in the following configurations:
 - Single output with passive reverse
 - · Single output with active reverse
 - Four outputs with passive reverse
- **RoHS Compliant**
- F-Port is 60 in-lbs tightening and loosening

Applications

- Distribution of video in the house for applications with multi-
- Home high speed networking (allowing internet service, videos, and gaming to share bandwidth without loosing speed
- High definition video streaming from the internet



Passbands (MHz): H 54 to 1002, L 5 to 42

Ordering Information

- PCTMA2F-11P Drop Amplifier, 1-Port Passive Return with MoCA Filter
- PCTMABF-11A Drop Amplifier, 1-Port Active Return with MoCA Filter
- PCTMABF-14P Drop Amplifier, 4-Port Passive Return with MoCa Filter









Specifications

Unit	PCTMA2F-11P	PCTMABF-11A Details	PCTMABF-14P
MHz		54 - 1002	
		RF Amplification IC — GaAs MESFET	
		-	
	11.5	11.5	3.5
dB	13.5	13.5	6.25
	14.0	14.0	6.75
	15.0	15.0	7.5
dB		± 1.0	
dB		± 0.5	
dB	≥ 16	≥ 16	≥2 6
dB		≥ 18	
ns		< 30 / 3.58 MHz	
ns		< 5 / 3.58 MHz	
dB		≤ 4	
dBc		< -62	
dBc		< -73	
dBc		< -75	
dBc		< -75	
dB		5 - 42	
dB	None	Push-Pull Amplifier	None
٩D	- 0.6	4.5	- 7.0
uв	- 0.5	4.5	- 7.0
	- 1.2	5.0	7.5
dB	NA	± 1.0	NA
dB	± 0.5	± 0.6	± 0.5
dB		≥ 36	
dВ		≥ 18	
uБ	≥ 25		≥ 22
		≥ 18	
dB	≥ 18	≥ 25	≥ 18
ns		< 20 / 1.5 MHz	
ns		< 10 / 1.5 MHz	
ns			
			NA
	Reverse in port 42 dBmV per carrier, five carriers		
dBc		< -65	
dBc		< -62	
dBc		< -65	
dBc		< -75	
VDC		12 - 16	
W		≤ 5.5	
dB		≥ 110	
Ohm		75	
°C		-40 to +60	
-	RF Ports: Conforms to ANSI/SCTE 81 2003, IEEE C62.41 Cat. B3 Waveform with power adapte Power Port: Conforms to ANSI/SCTE 81 2003, IEEE C62.41 Cat. A3 Waveform		
-	60 in-lbs tightening and loosening		
	Conforms to ANSI/SCTE 01 2006, sealed; able to hold 15 PSI; Patented DSM Seizure Mechanis		
	MHz dB dB dB dB dB dB dB dB d	MHz dB 11.5 dB 13.5 14.0 15.0 dB dB dB dB ≥ 16 dB ns ns ns dB dBc dBc dBc dBc dBc dBc dBc dBc dB None dB	MHz 54 - 1002 RF Amplification IC − GaAs MESFET dB 11.5 11.5 14.0 14.0 14.0 15.0 15.0 15.0 dB ± 1.0 48 dB ± 0.5 48 dB ≥ 16 ≥ 16 dB ≥ 18 18 ns < 30 / 3.58 MHz

Notes 1: Note 1: 79 each VSB-AM active video signals (54 – 552 MHz) at 10 dBmV/ch together with 33 each 256-QAM signals (552 – 750) at 4 dBmV/ch, all channels flat. 2: Five non-synchronous CW carriers at T-channels T-8 through T-12.









