

Model IPA1000DL Series VoIP / Cable Modem Amplifiers with Passive Reverse 65/85

Product Features

- Uninterrupted VoIP Service
- 1-Passive VoIP / Cable Modem Data Port
- Select 1, 4, or 8 Amplified RF Outputs
- Available with Active or Passive Reverse
- Unique True Flex Housing
- Available with dedicated power port



Parameter	Infinity Premise [™] Symmetry Plus Series		
	IPA1111DL-VF One Port	IPA1004DL-VF Four Port	IPA1008DL-VF Eight Port
Forward			
Frequency Range	85 MHz to 1002 MHz		
Frequency Response	1 dB p-p		
Gain	11 ± 0.5dB	0 ± 0.5dB	0 ± 0.5dB
Slope	< 1dB		< 1.5dB
Output Impedance	75 ohm		
Return Loss	> 20 dB		
Channel Loading	77 NTSC analog + 38, 64 QAM digital @ -6dB to analog		
Rated Input Level	10 dBmV		
Rated Input Slope	< 0.5 dB		
Rated Output Level	35.5 dBmV	27.5 dBmV	24.5 dBmV
CNR	67 dB	61 dB	58 dB
CTB	-85 dBc		
XMOD	-80 dBc		
CSO	-65 dBc		
HUM Modulation	-80 dBc		
Noise Figure	< 8 dB		
Group Delay, Forward	< 20 nSec (-4.43 MHz span) 85 MHz - 111 MHz < 5 nSec (-4.43 MHz span) 112 MHz - 1002 MHz		
RF Port-to-RF Port Isolation	NA	> 22 dB	> 22 dB
RF Port-to-Power Port Isolation	-80dB	-80dB	-80dB
Reverse			
Frequency Range	5 MHz to 65 MHz		
Gain	-3.8 ± 0.5dB	-10.7 ± 0.5dB	-14 ± 0.5dB
Return Loss	> 20 dB		
Frequency Response	1 dB p-p		
2nd Order Distortions (1)	NA	NA	NA
3rd Order Distortions (2)	NA	NA	NA
Saturated Output Power	NA	NA	NA
Noise Figure	NA	NA	NA
Group Delay, Reverse	< 20 nSec (5 MHz, 1.5 MHz span) < 30 nSec (65 MHz, 1.5 MHz span)		
Passive Data Port			
Frequency Range	5 MHz to 1002 MHz		
Frequency Response	1 dB p-p		
Insertion Loss	-3.5 dB		
Return Loss	> 22 dB		
Other			
Surge Withstand (All Ports)	IEEE C62.41-1991 Category B3 Combination Wave 6KV, 3KA; IEEE C62.41-1991 Category A3 Ring Wave 6KV, 200A;		
EMI	≥ 130 dB		
Dimensions (inches)	4.49 x 0.82 x 2.35	5.4 x 2.82 x 1.35	
DC Power Consumption	130 ma @ 15 v		
AC Power Consumption	41ma @ 120 v 4.9W		
Environmental			
Temperature	-40° F to + 140° F		
Water proof	15 psi		

Specifications Compliant Throughout Operating Temperature Of -40-C to +60-C And Are Subject To Change Without Notice © 2005-2008 Extreme Broadband Engineering LLC. All rights reserved. Extreme Broadband Engineering is a registered trademark. Infinity Premise[™] is a trade of Extreme Broadband Engineering. Infinity Premise Passive Data Port Amplifiers are Patent Pending.

Model IPA1000DL Series VoIP / Cable Modem Amplifiers with Active Reverse 65/85

Product Features

- Uninterrupted VoIP Service
- 1-Passive VoIP / Cable Modem Data Port
- Select 1, 4, or 8 Amplified RF Outputs
- Available with Active or Passive Reverse
- Unique True Flex Housing
- Available with dedicated power port



Model Shown
IPA1004DL-RSVF



Model Shown
IPA1008DL-RSVF

Parameter	Infinity Premise [™] Symmetry Plus Series		
	IPA1111DL-RSVF One Port	IPA1004DL-RSVF Four Port	IPA1008DL-RSVF Eight Port
Forward	85 MHz to 1002 MHz		
Frequency Range	85 MHz to 1002 MHz		
Frequency Response	1 dB p-p		
Gain	11 + 0.5dB	0 + 0.5dB	0 + 0.5dB
Slope	< 1dB		
Output Impedance	75 ohm		
Return Loss	> 20 dB		
Channel Loading	77 NTSC analog + 38, 64 QAM digital @ -6dB to analog		
Rated Input Level	10 dBmV		
Rated Input Slope	< 0.5 dB		
Rated Output Level	35.5 dBmV	27.5 dBmV	24.5 dBmV
CNR	67 dB	61 dB	58 dB
CTB	-85 dBc		
XMOD	-80 dBc		
CSO	-65 dBc		
HUM Modulation	-80 dBc		
Noise Figure	< 8 dB		
Group Delay, Forward	< 20 nSec (-4.43 MHz span) 85 MHz - 111 MHz		
	< 5 nSec (-4.43 MHz span) 112 MHz - 1002 MHz		
RF Port-to-RF Port Isolation	NA	> 22 dB	> 22 dB
RF Port-to-Power Port Isolation	-80dB	-80dB	-80dB
Reverse	5 MHz to 65 MHz		
Frequency Range	5 MHz to 65 MHz		
Gain	11 + 0.5dB	0 + 0.5dB	0 + 0.5dB
Return Loss	> 20 dB		
Frequency Response	1 dB p-p		
2nd Order Distortions (1)	-55	-55	-55
3rd Order Distortions (2)	-65	-65	-65
Noise Figure	6	13	17
Group Delay, Reverse	< 20 nSec (5 MHz, 1.5 MHz span)		
	< 30 nSec (65 MHz, 1.5 MHz span)		
Passive Data Port	5 MHz to 1002 MHz		
Frequency Range	5 MHz to 1002 MHz		
Frequency Response	1 dB p-p		
Insertion Loss	-3.5 dB		
Return Loss	> 22 dB		
Other	IEEE C62.41-1991 Category B3 Combination Wave 6KV, 3KA; IEEE C62.41-1991 Category A3 Ring Wave 6KV, 200A;		
Surge Withstand (All Ports)	IEEE C62.41-1991 Category B3 Combination Wave 6KV, 3KA; IEEE C62.41-1991 Category A3 Ring Wave 6KV, 200A;		
EMI	> 130 dB		
Dimensions (inches)	5.4 x 2.82 x 1.35		
DC Power Consumption	280 ma @ 15 v		
AC Power Consumption	65ma @ 120 VAC 7.8W		
Environmental	-40° F to + 140° F		
Temperature	-40° F to + 140° F		
Water proof	15 psi		
Note 1 f2=12MHz	fa=19MHz, fb=25 MHz, fc=31 MHz @ +55 dBmV out		
Note 1 f3=37MHz	fa=19MHz, fb=25 MHz, fc=31 MHz @ +55 dBmV out		

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