

### Infinity Premise™ Amplifiers

Parameter	Infinity Premise™ Subscriber Amplifier Series		
	IPA1001	IPA1002	IPA1004
Forward	One Port	Two Port	Four Port
Frequency Range	52 MHz to 1000 MHz		
Frequency Response	+ 0.5 db	+ 0.6db	+ 0.7 db
Gain	15 + 1db	11.5 + 1 db	8.0 + 1db
Slope	≤ 0.5 db		
Output Impedance	75 ohm		
Return Loss (Input and Output)	≥ 22 dB		
Distortion	Distortions based on 5 dBmV flat analog input level		
Channel Loading	77 NTSC analog + 38, 64 QAM digital @ -6db to analog		
Rated Output Level	25 dBmv	21.5 dBmv	18 dBmv
Rated Output Slope	≤ 0.5 dB		
CTB (After Surge)	-75 dBc		
XMOD (After Surge)	-75 dBc		
CSO (After Surge)	-62 dBc		
HUM Modulation	-80 dBc		
Noise Figure	≤ 3 dB	≤ 4 dB	≤ 5 dB
Group Delay, Forward	< 20 nSec (-3.58 MHz span) ch. 2-5		
	< 5 nSec (-3.58 MHz span) ch. 6+		
RF Port-to-RF Port Isolation	NA	> 25 dB	> 25 dB
RF Port-to-Power Port Isolation	≥ 70 dB		
Reverse			
Frequency Range	5 MHz to 42 MHz		
Insertion Loss (nominal)	≤ 1.0 dB	≤ 4.0 dB	≤ 7.0 dB
Return Loss	≥ 25 dB		
Frequency Response	+ 0.5 dB		
Group Delay, Forward	< 5 nSec (8 MHz to 38 MHz, 1.5 MHz span)		
	< 20 nSec (5 MHz to 42 MHz, 1.5 MHz span)		
Other			
Surge Withstand (All Ports)	IEEE C62.41-1991 Category B3 Combination Wave 6KV, 2KA; IEEE C62.41-1991 Category A3 Ring Wave		
EMI	≥ 130 dB		
Dimensions (W x D x H)	3.47" x 0.82" x 2.35" 88.2 mm x 20.8 mm x 59.7 mm	4.49" x 0.82" x 2.35" 114.1 mm x 20.8 mm x 59.7 mm	4.49" x 0.82" x 3.15" 114.1mm x 20.8 mm x 80.0 mm
Environmental			
Temperature	-40° F to + 140° F		
Water proof	15 psi		

Specifications Compliant Throughout Operating Temperature Of -40-C to +60-C  
Specifications Are Subject To Change Without Notice

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Designers and Manufacturers of Unique Broadband Products

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