

## Description:

Data Plus Amplifiers include unique design features to increase reliability and decrease installation time. The unique DataComm™ feature set allows MoCA communication between the passive data port and all active output ports on the 2000 series Infinity Premise Amplifiers. CrossTalk™ allows MoCA to freely communicate between all RF outputs. Technicians no longer need to worry where they connect MoCA devices.



IPA2004DSL2-RSVFA



IPA2008DSL2-RSVFA

## Features & Benefits:

- Uninterrupted VoIP Service
- Passive VoIP / Cable Modem Data Port
- Data Stabilization (Power Failure Impedance Protection)
- No Mechanical Switches
- Unity Gain Forward and Reverse
- MoCA 2.0
- CrossTalk™ MoCA Communication between Data Port and all RF Outputs
- Built-in MoCA Filter
- Powder Coated True Flex Housing
- UL Approved

## Applications:

**Premise, Multi-Dwelling Units (MDU) and Business.**

## Additional Info: Specifications

Forward	Units	Condition	IPA2004DSL2-RSVFA	IPA2008DSL2-RSVFA
Ports			4	8
Frequency Range	MHz		54 to 1002	54 to 1002
Gain	dB	54 MHz	0.0±1.0	0.0±1.0
Gain	dB	1002 MHz	0.0±1.0	0.0±1.0
Slope	dB	54 -1002 MHz	0.0±1.0	0.0±1.0
Frequency Response	dB p-p	54 -1002 MHz	≤1.0	≤1.0
Return Loss (Output)	dB	54 -1002 MHz	≥20	≥20
Return Loss (Input)	dB	54 -1002 MHz	≥20 (Power On or Off)	≥20 (Power On or Off)
Isolation	dB	54 -1002 MHz	≥25	≥25
Channel Loading		54 -1002 MHz	72 NTSC analog + Noise (551-1002MHz) @ -6dB	
Rated Input Level	dBmV	Flat	10	10
CTN	-dBc	10 dBmV in	≥55	≥55
CTB	-dBc	10 dBmV in	≥75	≥75
CSO	-dBc	10 dBmV in	≥65	≥65
XMOD	-dBc	10 dBmV in	≥75	≥75
Rated Output Level	dBmV	@CTB73, CSO62, XM65 dBc	≥18	≥18
HUM Modulation	-dBc	54 -1002MHz	≥80	≥80
Noise Figure	dB	Input NF less input losses	≤5	≤5
Group Delay	ns	ch. 2 (-3.58 MHz span)	≤20	≤20
Group Delay	ns	ch. 3 (-3.58 MHz span)	≤10	≤10
Group Delay	ns	ch. 4+ (-3.58 MHz span)	≤5	≤5
RF-to-Power Port Isolation	dB	5 - 1002 MHz	≥60	≥60
2nd Harmonic	-dBc	54-84 MHz @ 60dBmV	≥80	≥80

Reverse	Units	Condition	IPA2004DSL2-RSVFA	IPA2008DSL2-RSVFA
Frequency Range	MHz		5 MHz to 42 MHz	5 MHz to 42 MHz
Gain	dB	5-42 MHz	0.0±1.0	0.0±1.0
Frequency Response	dB p-p	5-42 MHz	≤1.0	≤1.0
Return Loss	dB	5-42 MHz	≥20	≥20
Isolation	dB	5-42 MHz	≥25	≥25
DSO @ 6 or 32 MHz	-dBc	55 dBmV Out @13&19 MHz	≥55	≥55
DTO @ 7 or 25 MHz	-dBc	55 dBmV Out @13&19 MHz	≥60	≥60
Rated Output Level	dBmV	@DSO55, DTO60 -dBc	≥55	≥55
Noise Figure	dB	Output NF less output losses	≤5	≤5
Group Delay	ns	5-6 MHz 1.0 MHz span	≤20	≤20
Group Delay	ns	6-10 MHz 1.0 MHz span	≤15	≤15
Group Delay	ns	10-36 MHz 1.0 MHz span	≤5	≤5
Group Delay	ns	36-42 MHz 1.0 MHz span	≤20	≤20

## Additional Info: Specifications

Passive Data Port	Units	Condition	IPA2004DSL2-RSVFA	IPA2008DSL2-RSVFA
Frequency Range	MHz		5 MHz to 1002 MHz	5 MHz to 1002 MHz
Frequency Response	dB p-p	5-870 MHz	≤0.8	≤0.8
Frequency Response	dB p-p	871-1002 MHz	≤0.8	≤0.8
Insertion Loss	dB	5-550 MHz	≤3.8	≤3.8
Insertion Loss	dB	551-870 MHz	≤4.6	≤4.6
Insertion Loss	dB	871-1002 MHz	≤5.6	≤5.6
Insertion Loss	dB	1125-1675 MHz	≥35	≥35
Return Loss	dB	5 -1002 MHz	≥20	≥20
<b>MoCA Isolation ( 1125 - 1675 MHz)</b>				
Downstream In to Out Loss	dB	1125-1675 MHz	≥35	≥35
Upstream Out to In Loss	dB	1125-1675 MHz	≥35	≥35
Out to Out Loss - Adjacent (1-2, 3-4, 5-6, 7-8)	dB	1125-1675 MHz	≥25	≥25
Out to Out Loss - Semi-Adjacent (1-4, 5-8)	dB	1125-1675 MHz	≥30	≥30
Out to Out Loss - Cross (1-8)	dB	1125-1675 MHz	N/A	≥35
Bi-directional Modem to Input	dB	1125-1675 MHz	≥35	≥35
Bi-directional Modem to Out1-	dB	1125-1675 MHz	≥30	≤30
<b>Other</b>				
Surge Withstand (All Ports)		IEEE C62.41	6kV A3 ring	6kV A3 ring
Surge Withstand (All Ports)		EEE C62.41	6kV B3 combo	6kV B3 combo
EMI	dB	5-1675 MHz	≥110	≥110
Dimensions	in (mm)	Length	4.91 (124.7)	5.91 (150.1)
Dimensions	in (mm)	Width	3.10 (78.7)	3.10 (78.7)
Dimensions	in (mm)	Depth	1.52 (38.6)	1.52 (38.6)
DC Current Consumption	ma	12-15VDC	280	300
AC Power Consumption	W	120 VAC (SM) Linear	(4.4) 6.0	(4.7) 6.5
<b>Environmental</b>				
Temperature	F (C)		-40° to 140° (-40 to +60)	-40° to 140° (-40 to +60)
Water Proof	psi		15	15

Specifications are subject to change without notice 2021.  
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Customers are reminded they are SOLELY responsible for confirming  
that all products are properly installed and used in accordance with  
codes and regulations.