

## Data Plus IPA1000DL-xxVF Data Plus Amplifier Series

### Description:

Data Plus Amplifiers include unique design features to increase reliability and decrease installation time. The patented Blue Port/Blue Label marks the passive data port. By utilizing a passive data port on the amplifier, modem/VoIP service will not be interrupted in the event of power loss. Additional outputs remain active and increase dB levels by a specified gain. Dedicated local powering port, Dual LED status lights, small compact design, and True Flex housing are just a few features assisting the technician in every installation.



### Features & Benefits:

- Uninterrupted VoIP Service
- 1-Passive VoIP / Cable Modem Data Port
- Dedicated Local Power Port
- Select 4 or 8 Amplified RF Ports
- Available with Active or Passive Reverse
- Unity Gain Forward and Reverse
- Unique True Flex Housing
- UL Approved

### Applications:

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

## Additional Info: Specifications

Forward	Units	Condition	IPA1004DL-RSVF	IPA1008DL-RSVF
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	≥20
Isolation	dB	54 -1002 MHz	≥25	≥25
Channel Loading		54 -1002 MHz	77 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	≥17	≥17
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	IPA1004DL-RSVF	IPA1008DL-RSVF
Frequency Range	MHz		5 MHz to 42 MHz	5 MHz to 42 MHz
Gain	dB	5-42 MHz	0.0±0.5	0.0±0.5
Frequency Response	dB p-p	5-42 MHz	≤1.0	≤1.0
Return Loss	dB	5-42 MHz	≥18	≥18
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	IPA1004DL-RSVF	IPA1008DL-RSVF
Frequency Range	MHz		5 MHz to 1002 MHz	5 MHz to 1002 MHz
Frequency Response	dB p-p	5-870 MHz	≤0.5	≤0.5
Frequency Response	dB p-p	871-1002 MHz	≤0.5	≤0.5
Insertion Loss	dB	5-550 MHz	≤3.8	≤3.8
Insertion Loss	dB	551-870 MHz	≤4.2	≤4.2
Insertion Loss	dB	871-1002 MHz	≤4.6	≤4.6
Return Loss	dB	5 -1002 MHz	≥20	≥20
<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	5-1002 MHz	≥110	≥110
Dimensions	in (mm)	Length	5.40 (137.2)	5.40 (137.2)
Dimensions	in (mm)	Width	2.82 (71.67)	2.82 (71.6)
Dimensions	in (mm)	Depth	1.35 (34.3)	1.35 (34.3)
DC Current Consumption	ma	12-15VDC	280	280
AC Power Consumption	W	120 VAC (SM) Linear	(4.4) 6.0	(4.4) 6.0
<b>Environmental</b>				
Temperature	F (C)		-40° to 140° (-40 to +60)	-40° to 140° (-40 to +60)
Water Proof	psi		15	15

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## Additional Info: Specifications

Forward	Units	Condition	IPA1004DL-VF	IPA1008DL-VF
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	≥20
Isolation	dB	54 -1002 MHz	≥25	≥25
Channel Loading		54 -1002 MHz	77 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	≥17	≥17
HUM Modulation	-dBc	54 -1002MHz	≥75	≥75
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	≥95	≥95

Reverse	Units	Condition	IPA1004DL-VF	IPA1008DL-VF
Frequency Range	MHz		5 MHz to 42 MHz	5 MHz to 42 MHz
Gain	dB	5-42 MHz	-11.0±1.0	-15.0±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	N/A	N/A
DTO @ 7 or 25 MHz	-dBc	55 dBmV Out @13&19 MHz	N/A	N/A
Rated Output Level	dBmV	@DSO55, DTO60 -dBc	N/A	N/A
Noise Figure	dB	Output NF less output losses	N/A	N/A
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

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### Specifications

Passive Data Port	Units	Condition	IPA1004DL-VF	IPA1008SL-VF
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	≤4.2	≤4.2
Insertion Loss	dB	871-1002 MHz	≤4.6	≤4.6
Return Loss	dB	5 -1002 MHz	≥20	≥20
<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	5-1002 MHz	≥110	≥110
Dimensions	in (mm)	Length	5.40 (137.2)	5.40 (137.2)
Dimensions	in (mm)	Width	2.82 (71.67)	2.82 (71.67)
Dimensions	in (mm)	Depth	1.35 (34.3)	1.35 (34.3)
DC Current Consumption	ma	12-15VDC	150	150
AC Power Consumption	W	120 VAC (SM) Linear	(2.5) 3.2	(2.5) 3.2
<b>Environmental</b>				
Temperature	F (C)		-40° to 140° (-40 to +60)	-40° to 140° (-40 to +60)
Water Proof	psi		15	15

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