

Entry Series®

Integrated VoIP Amplifier Devices



Features & Benefits

- Return loss saver
- All passive voice modem port
- Dual color LED indicator with monitoring
- UL listed bonding point
- Gas tube surge protection on INPUT port
- One power supply for all models
- Excellent corrosion resistance
- Nickel plated C360 brass F-ports
- Patented enhanced conical seizure mechanisms
- RoHS compliant
- Can be installed outdoors



Overview

Designed to help protect the multiple-service customer, this simple, yet revolutionary, product offers a number of distinct features to improve the integrity of the drop. By combining an entire drop installation into one compact unit, the Entry Series® not only cuts installation time in half, it drastically reduces the number of potential failure points.

The Entry Series incorporates a completely passive Voice Modem port for customers who offer lifeline voice service. Critical communication signals passing to and from the voice modem are never jeopardized by having to pass through active components (e.g. relays) like those found in typical bypass amplifiers.

The unique circuit design maintains SCTE recommended RF performance on the INPUT and Voice Modem ports even when power is lost or there is IC failure. Engineered with additional gas tube surge protection on the INPUT port, the Entry Series can withstand surges that would cause standard amplifiers to fail.



This product may be protected by one or more patents • For further information, please visit: www.ppc-online.com/patents

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Technical Data

Forward Path

Specification	Unit	Value
Frequency Range	MHz	85-1218
Frequency Range (Voice Modem port)	MHz	5-1218
Input Level	dBmV	14.0 (max)
Gain (Output ports)	dB	0 (@1218 -4 dB)
Insertion Loss (Voice Modem port)	dB	4.2 (@1218 4.5 dB)
Flatness	dB	±0.5
Return Loss (all RF ports with device powered)	dB	20 (@1218 14 dB)
Return Loss (Input & Voice Modem ports with no power to device)	dB	20 (@1218 16 dB)
Isolation (Output-to-Output)	dB	22 typical, 22 worst case 85 – 1002MHz, (@1218 16dB)
Isolation (Power-to-RF IN)	dB	65
Noise Figure	dB	3.5 (max)
Group Delay Variation (1 MHz span)	ns	4 from 85–90 MHz, 3 from 90–1002 MHz
Composite Triple Beat*	dBc	< -73
Composite Second Order*	dBc	< -62
Cross Modulation*	dBc	< -75

*79 analog channels (54-552 MHz) at 14 dBmV/ch. + 75 digital channels (552-1002 MHz) at -6 dBc (total channel power), relative to analog carriers. All channels flat. All values are typical unless otherwise noted. Specifications are subject to change without notice.

Return Path

Specification	Unit	Value
Frequency Range	MHz	5-65
SCTE Rated Output Power Capability	dBmV	55
Gain (Output Ports)	dB	0
Gain Variation	dB	±0.5
Insertion Loss (Output ports)	dB	--
Insertion Loss (Voice Modem port)	dB	3.5
Flatness	dB	±0.75
Return Loss (all RF ports with device powered)	dB	20
Return Loss (Input & Voice Modem ports with no power to device)	dB	20
Isolation (Output-to-Output)	dB	22
Isolation 5-9 MHz (Voice Modem-to-Output)	dB	20
Isolation 9-42 MHz (Voice Modem-to-Output)	dB	<17
Noise Figure (Apparent)	dB	15.5
Group Delay Variation (1 MHz span)	ns	15 from 5-10MHz, 10 from 10-60MHz, 15 from 60-85MHz

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General Specifications

Specification	Unit	Value
Nominal Impedance	ohms	75
Hum Modulation	dBc	-75 typical, -60 worst case
RFI Shielding	dB	100
Operating Temperature	°C (°F)	-40 to 60 (-40 to 140)
Surge Withstand	—	<ul style="list-style-type: none">• Gas tube surge protection on INPUT port, 40 kV, 20 kA (max)• All RF ports: 6 kV, 3 kA loc.B IEEE C62.41-1991 Cat. B3 (combination wave) per ANSI/SCTE 81 2007• All RF ports: 6 kV, 200 amperes IEEE C62.41-1991 Cat. A3 (ring wave) per ANSI/SCTE 81 2007
Powering Options	—	Local and Remote
Power Requirements	—	15 VDC, 400 mA
Warranty	—	5 Years

Ordering Information

Part Number	Description
PPC-5-UU-6585	With single output 120 VAC power supply
PPC-5-UU-6585-NPS	Without power supply customer to source power supply with +15VDC $\pm 3\%$ @400 mA output

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