

1.2GHz Line Passives

Splitters, DCs, LPIs



Features & Benefits

- Supports expanded bandwidth, 5 – 1218MHz frequency range
- Corrosion resistant aluminum alloy with polyurethane finish
- Neoprene weather gasket
- RF shielding to 120dB
- 15Amp current capacity for Splitters and DCs
- 15 or 20Amp current capacity for LPIs
- Interchangeable faceplates
- Standard 5/8 in ports with rotating seizure screws
- 6kV 3000A “combo” wave surge protection



Overview

PPC introduces a new series of line passives to support the cable industry’s bandwidth expansion to 1218MHz. Form-factor compatible with the most popular brands, installation of these devices is familiar to installing techs and can be used in both aerial and pedestal applications.

Available configurations are splitters, directional couplers (DCs) and line power inserters (LPIs):

- Splitters: 2-way, 3-way unbalanced and 3-way balanced, 15Amp capable
- Directional couplers: 8db, 12db and 16dB, 15Amp capable
- Line power inserters: 15Amp and 20Amp versions

All products are protected against electrical surges and can pass the industry’s most challenging 6kV surge test. These are the reliable products you can deploy today and use for years to come.

Technical Data (all products)

Specification	Value	
Power Passing:	Splitters + DCs	15 Ampere, 60/90VAC
	LPIs	15 Ampere, (20A optional) 60/90VAC
Impedance:	75 Ohms	
Mechanical:	Construction:	Aluminum with weather resistant polyurethane coating
	Dimensions: (H x W x D)	4.25 in x 5.4 in x 2.9 in (108 mm x 137 mm x 74 mm)
	Ports:	Qty. 4 of 5/8 in x 24 UNEF-2B female
Environmental:	Operating Temp: °F (°C)	-40 to 140 (-40 to 60)
	Humidity:	0 to 100% condensing
Surge Withstand:	ANSI/SCTE 81 2012, IEEE C62.41-1991 Cat. B3 6kV, 3000A, 1.2 / 50usec to 8 / 20usec Combination Wave	

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Technical Data (all products)

Specification	Frequency	Splitters			Directional Couplers			Line Power Inserter
		2-way	3-way unbalanced	3-way balanced	DC-8	DC-12	DC-16	
Insertion Loss – In/Out: Maximum	5 – 10MHz	4.3dB	4.3 / 8.2dB	6.3dB	1.8dB	1.7dB	1.0dB	0.9dB
	10 – 65MHz	4.0dB	4.3 / 7.5dB	6.3dB	1.8dB	1.5dB	1.0dB	0.9dB
	65 – 300MHz	4.3dB	4.3 / 7.5dB	6.3dB	2.3dB	1.7dB	1.2dB	0.9dB
	300 – 550MHz	4.5dB	4.5 / 7.6dB	6.5dB	2.5dB	1.9dB	1.4dB	0.9dB
	550 – 750MHz	4.6dB	4.6 / 7.7dB	7.0dB	2.7dB	2.1dB	1.6dB	0.9dB
	750 – 862MHz	4.8dB	4.9 / 8.0dB	7.2dB	2.9dB	2.3dB	1.9dB	0.9dB
	862 – 1000MHz	4.8dB	5.0 / 8.0dB	7.3dB	3.1dB	2.5dB	2.0dB	0.9dB
	1000 – 1218MHz	5.3dB	5.6 / 8.5dB	8.0dB	3.3dB	2.8dB	2.5dB	1.2dB
Insertion Loss – In/Tap: Tolerance: +/-1.0dB 5 – 1000MHz +/-1.5dB 1000 – 1218MHz	5 – 1218MHz	X	X	X	8dB	12dB	16dB	X
Isolation – Out/Out: Minimum	5 – 10MHz	20dB	22dB	22dB	27.5dB	20dB	20dB	60dB
	10 – 42MHz	35dB	22dB	22dB	27.5dB	32dB	32dB	60dB
	42 – 860MHz	28dB	26dB	26dB	30dB	30dB	30dB	60dB
	860 – 1218MHz	22dB	22dB	22dB	26dB	26dB	26dB	58dB
Return Loss – all ports: Minimum	5 – 10MHz	14dB	12dB	14dB	14dB	14dB	14dB	14dB
	10 – 65MHz	16dB	14dB	14dB	15dB	15dB	14dB	16dB
	65 – 950MHz	18dB	18dB	17dB	17dB	17dB	17dB	18dB
	950 – 1218MHz	15dB	16dB	14dB	16dB	16dB	14dB	16dB
Hum Modulation: @ 15Amps - Maximum	5 – 10MHz	60dBc	60dBc	60dBc	60dBc	60dBc	60dBc	60dBc
	10 – 15MHz	65dBc	65dBc	65dBc	65dBc	65dBc	65dBc	65dBc
	15 – 1000MHz	60dBc	60dBc	60dBc	60dBc	60dBc	60dBc	60dBc
	1000 – 1218MHz	60dBc	60dBc	60dBc	60dBc	60dBc	60dBc	60dBc
RFI Shielding: Minimum	5 – 1000MHz	-100dB	-100dB	-100dB	-100dB	-100dB	-100dB	-100dB
	1000 – 1218MHz	-100dB	-100dB	-100dB	-100dB	-100dB	-100dB	-100dB

Ordering Information

Part Number	Description
PPC-LPAX2-SP2	Line Passive, 2-Way Splitter, Type "A", 15Amp, 5 – 1218MHz
PPC-LPAX2-SP3	Line Passive, 3-Way Splitter, Type "A", 15Amp, 5 – 1218MHz
PPC-LPAX2-SP3B	Line Passive, 3-Way Balanced Splitter, Type "A", 15Amp, 5 – 1218MHz
PPC-LPAX2-DC8	Line Passive, 8dB Directional Coupler, Type "A", 15Amp, 5 – 1218MHz
PPC-LPAX2-DC12	Line Passive, 12dB Directional Coupler, Type "A", 15Amp, 5 – 1218MHz
PPC-LPAX2-DC16	Line Passive, 16dB Directional Coupler, Type "A", 15Amp, 5 – 1218MHz
PPC-LPAX2-PI1	Line Passive, Power Inserter, Type "A", 15Amp, 5 – 1218MHz
PPC-LPAX2-PI2	Line Passive, Power Inserter, Type "A", 20Amp, 5 – 1218MHz

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