RFL[™] POWER LINE CARRIER HYBRID PRO[™] SYSTEM



HPS/RFL[™] is proud to introduce the new Power Line Carrier Hybrid Pro[™] system to its family of PLC products. The PLC Hybrid Pro[™] system is a modular system supporting a wide range of hybrid modules contained in 1RU chassis design for use with 10-watt PLC transceivers. The available hybrid modules are all new and include; Balanced, Skewed, Splitter, Splitter/Combiner and Bypass hybrid types. These new hybrid module designs include several new features and enhancements over previous generation hybrid modules.

FEATURES AND BENEFITS

Single-card Module Design

Each hybrid module is now a single card eliminating the need for insert in front and rear modules and mating connectors.

Front BNC Test Points

BNC type test points are now provided on the front of the hybrid module to eliminate the need for adapters when connecting PLC signal metering devices.

Improved Port Labeling

Both front and rear BNC ports have revised labeling, specific to the hybrid type, for easy port identification. Rear port labeling also includes expected hybrid signal loss information for simple understanding of expected signal levels.

Convenient Reflected Power Meter Connections

The Skewed hybrid includes a reflected power meter test function eliminating the need to interrupt the circuit during testing. The feature is also optional on the Balanced hybrid, for TX only applications.

Space-Saving Hybrid Configurations

Commonly, multiple hybrid modules are required for Splitter/ Combiner and Bypass hybrid functions. Hybrids are now available as a single-card module, occupying only a single slot. As a result, only one hybrid chassis is needed for most applications, even for dual-phase coupled systems.



For product inquiries, please contact your local sales representative, or visit the RFL™ brand website at www.rflelect.com

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TECHNICAL SPECIFICATIONS

Hybrid Chassis

- 1RU 19" Rack Mount
- Dimensions (HxWxD): 1.72" x 19" x 14.5"
- Number of Slots: 3

Balanced Hybrid

- Operating Impedance: 50 ohms (75 ohms available by request)
- Insertion Loss (TX1 or TX2 to Out): ~3.5 dB
- Isolation (TX1 to TX2): >30 dB
- Power Rating: 10 Watts, each port
- Second Harmonic Distortion: at least 80 dB below the fundamental frequency
- Third Oder Intermodulation Products: at least 60 dB below the fundamental frequency

Skewed Hybrid

- Operating Impedance: 50 ohms (75 ohms available by request)
- Insertion Loss (TX to Line): ~0.5 dB
- Insertion Loss (Line to RX): ~13dB
- Isolation (TX to RX): >40 dB
- Power Rating: 10 Watts, each port
- Second Harmonic Distortion: at least 80 dB below the fundamental frequency
- Third Order Intermodulation Products: at least 60 dB below the fundamental frequency

Splitter Hybrid

- Operating Impedance: 50 ohms (75 ohms available by request)
- Phase Relationship (Line 1 to Line 2): 180°
- Power Rating: 10 Watts, each port

Splitter/Combiner Hybrid

- Operating Impedance: 50 ohms (75 ohms available by request)
- Phase Relationship (Line 1 to Line 2): 180°
- Power Rating: 10 Watts, each port

Bypass Hybrid

- Operating Impedance: 50 ohms (75 ohms available by request)
- Insertion Loss: ~6.5 dB
- Power Rating: 10 Watts, each port

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RFL Part Number	Module Description
RF-107970	Balanced hybrid
RF-107975	Skewed hybrid
RF-107980	Splitter
RF-107990	Splitter/Combiner
RF-107985	Bypass
RF-106665-1	1RU Chassis
RF-106666-1	Blank Panel

ORDERING INFORMATION



EXAMPLE: HYBP - BA - SK - O



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