

NEW PRODUCT ANNOUNCEMENT

1-RU PLC HYBRIDS DOCUMENT NUMBER: C045-16004a



As of February 2016, Ametek Power Instruments (“API”) has released a new improved 1RU mounting hybrid product line, shown above, with the intent to eventually obsolete the existing 2RU mounting hybrids’ model/part numbers highlighted in yellow in the table below.

2-RU Hybrid (Model/Description)	2-RU Hybrid Part Number	Equivalent 1-RU Hybrid (Description)	Equivalent 1-RU Hybrid Part Number
H1RB Resistive Hybrid	6266D72G05	Balanced Hybrid	CH20-BALMN-001
H1RB-40 Resistive Hybrid	6266D72G07	Balanced Hybrid	CH20-BALMN-001
H3XB Reactive Hybrid	6266D71G03	No equivalent	No equivalent
H1SB Skewed Hybrid	1609C45G01	Skewed Hybrid	CH20-SKWMN-001
H1SB-R Skewed Hybrid	1609C45G03	Skewed Hybrid	CH20-SKWMN-001

The new hybrids perform basically the same as the old hybrids but with improved transformers and features. The main feature improvements include the following:

1. One rack unit chassis holds up to 4 hybrids of any kind versus the old two rack unit plate that held up to 3 hybrids max.
2. The 1 RU hybrid chassis extends back the same distance as the UPLC carrier chassis versus the 2 RU hybrids which only extend back about 5 inches from the front plate. This makes accessibility to wiring connections easier for the 1 RU hybrids.
3. The test points for the 1 RU hybrids are located on the front of the 1 RU chassis giving convenient front test access for both the hybrids and any carrier sets attached to them.
4. The 1 RU hybrids include an in-line pushbutton switch (which can be enabled/disabled) that is available to allow insertion of a reflected power meter without disrupting the signal.

Specifications

Hybrid Type	2-RU Types (Old Style)			1-RU Types (New Style)	
	H1RB	H3XB	H1SB-R	Balanced	Skewed
Part Number	6266D72G05	6266D71G03	1609C45G03	CH20-BALMN-001	CH20-SKWMN-001
Frequency Range	30-535 kHz	30-535 kHz*	30-535 kHz	30-535 kHz	30-535 kHz
Max Power for Transmitters	15 watts	15 watts	100 watts	25 watts	100 watts
Output Impedance	50 Ω	44-75 Ω	50 or 75 Ω	50 or 75 Ω	50 Ω
Insertion Loss - Max	3.5 dB	3.5 dB	TX: 1.0 dB RX: 13.0 dB	3.5 dB	TX: 0.5 dB RX: 14.5dB
Isolation/ Transhybrid Loss**	30 dB min	45 dB min*	40 dB min	30 dB min	40 dB min

* Frequency range limited to a narrow frequency band for Isolation Spec for H3XB only.

** With exact impedance matching

The catalog ordering information changes as shown below.

RF Hybrids			
	Type	Part Number	Description
2-RU (old style)	H1RB (2-RU)	6266D72G05	Resistive Hybrid (50 Ω)
	H1RB-40 (2-RU)	6266D72G07	Resistive Hybrid (50 Ω) - 40 watt (20W each input)
	H1RB-100 (2-RU)	6266D72G09	Resistive Hybrid (50 Ω) - 100 watt (50W each input)
	H1SB (2-RU)	1609C45G01	Skewed Hybrid (50 Ω) - Not recommended
	H1SB-R (2-RU)	1609C45G03	Skewed Hybrid (50 Ω) w/ 50 Ω Resistor on RX Port
	H3XB (2-RU)	6266D71G03	Reactance Hybrid
	2-RU Hybrid Mounting	670B695H01	2 Rack Unit 19" Panel for mounting up to three 2-RU Hybrids
1-RU (new style)	Balanced Hybrid (1-RU)*	CH20-BALMN-001	Balanced Hybrid (equivalent to H1RB/H1RB-40) - 50W (25W each input)
	Skewed Hybrid (1-RU)*	CH20-SKWMN-001	Skewed Hybrid (equivalent to H1SB/H1SB-R)
	1-RU Chassis (flush mount)	1088-780	1 Rack Unit 19" Chassis to hold up to four 1-RU Hybrids
	1-RU Chassis (projection mount)	1088-824	1 Rack Unit 19" Chassis to hold up to four 1-RU Hybrids
	Projection Mounting Brackets	1088-820	1 pair of mounting brackets only (for converting existing flush chassis)
	1-RU Rear Cover Plate	1088-834	Single Hybrid Slot, Blank Cover for 1-RU Chassis

*Requires 1-RU chassis for mounting

Coax Cables/Adapters		
Type	Part Number	Description
RG58 Coax cable-5' BNC	01W1-COAX5-111	5 Ft. Coax Cable, with BNC male to BNC male Connectors
RG58 Coax cable-12' BNC	01W1-COAXA-111	12 Ft. Coax Cable, with BNC male to BNC male Connectors
RG58 Coax cable-5' UHF	BNCUHF05	5 Ft. Coax Cable, with BNC male to UHF male Connectors
RG58 Coax cable-12' UHF	BNCUHF12	12 Ft. Coax Cable, with BNC male to UHF male Connectors
Adapter: BNC(f)-UHF(m)	01NC-UG273-000	BNC female to UHF male Adapter (for converting coax cable)
Adapter: BNC-BNC-BNC (m-f-f)	01NC-UG274-000	BNC "T" Connector (3-way: male-female-female)
Adapter: BNC(m)-UHF(f)	01NC-A8313-000	BNC male to UHF female Adapter (for converting BNC hybrid output to UHF)

Complete information including a system manual can be found at the following link

<http://www.ametekpower.com/Communication-Products/RF-Hybrids.aspx>

Click on the documents tab. The system manual is document # CH44-VER04.

Contact sales.pulsar@ametek.com or call 1-800-785-7274 for sales department for more information.

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