

DOCSIS 3.x Comply

Designed Today for Tomorrow Applications!

Features & Benefits

- Comparative to other manufacturers the HPS Series modules are designed for best in class performance in port-to-port isolation, return loss, and frequency response in Extra Broadband working frequency range 5-1218 MHz.
- HPS Series Extra Broadband Modules offer minimum -30dB port-to-port isolation and minimum return loss spec of 20dB.
- All HPS "X" Series modules are offer high flatness (± 0.5 dB) of insertion loss in frequency range 5-1218 MHz which is ideal for channel bonding transmission and receiving.
- High flatness of Insertion Loss characteristics in channel spacing from 24 MHz to 192 MHz.
- Our very competitive pricing structure allows customers to realize significant cost savings.

- Custom designs welcomed.

THREE YEAR PARTS AND LABOR
WARRANTY INCLUDED

The New Advanced Head End Passive Modules Series "X" includes variety of modules fits for standards 1RU, 2RU or 5RU Chassis provided different manufactures.

The new **HPS Series** of passive modules provide RF signal management solutions for modern CATV Head-end or Hub site applications and comply with DOCSIS 3.x Standards.

HPS "X" Series passive modules are designed for Extra Broadband frequency range applications available in variety of configurations. Modules are designed as universal or "bi-directional splitters/combiners", or as specialized unidirectional combiners or splitters featuring -20 dB test point which are optimized for best performance in a designated frequency range. Modules can also be specified as "flat" with a built in equalizer and "regular" without an equalizer for systems using external equalization.

The internal equalization guaranty flat response (± 0.5 dB) in channel spacing from 24 MHz to 192 MHz or even wider.

To maximize utilization of rack space the 2- and 4-way models are packaged by three and two correspondingly while occupying a single slot in the modular chassis. Directional couplers are also available and packaged by three in a single housing. Modular passives are designed with internal walls which prevent any cross talk, while the cover of the unit is completely solder sealed to minimize RFI.

All modules feature anti-corrosive plating, nickel plated machine brass connectors (comply with SCTE Standards).

Please contact us for additional technical support or product information.

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Insertion Loss

(Maximum Values Shown, Typical Values are 0.2-to-0.5dB Better)

Model	Frequency				
	5MHz ← → 1218MHz				
	5-10MHz	10-85MHz	85-200MHz	200-1002MHz	1002-1218MHz
Universal T2XU-E	4.2dB	4.2dB	4.2dB	4.2dB	4.3dB
Universal D4XU-E	8.2dB	8.2dB	8.1dB	8.2dB	8.3dB
Universal 8XU-E	12.2dB	12.2dB	12.2dB	12.2dB	12.5dB

Return Loss "Common" Port

(Minimum Values Shown, Typical Values are 1-to-3dB better)

Model	Frequency				
	5MHz ← → 1218MHz				
	5-10MHz	10-85MHz	85-200MHz	200-1002MHz	1002-1218MHz
All Modules	20dB	20dB	20dB	20dB	20dB

Return Loss all "In" or "Out" Ports

(Minimum Values Shown)

Model	Frequency				
	5MHz ← → 1218MHz				
	5-10MHz	10-85MHz	85-200MHz	200-1002MHz	1002-1218MHz
All Modules	20dB	22dB	22dB	22dB	22dB

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Isolation Port to Port

(Minimum Values Shown, Typical Values are 3-to-5dB Better)

Model	Frequency				
	5MHz ← → 1218 MHz				
	5-10MHz	10-85MHz	85-200MHz	200-1002MHz	1002-1218MHz
All 8-way Modules	30dB	30dB	30dB	30dB	30dB
All 4-way Modules	30dB	30dB	30dB	30dB	30dB
All 2-way Modules	30dB	30dB	30dB	30dB	30dB
RFI, min, all Modules	110dB	110dB	100dB	100dB	100dB

Isolation between modules in one housing for 2- and 4-way devices more than 85 dB.

Abbreviations:

First	Second	Third	Forth	Fifth	Sixth
T – triple	2 - 2-way	X –Extra Broadband 5-1218MHz	S - Splitter	T - Test Port	E - Equalizer
D – dual	4 - 4-way		C - Combiner	-20 dB±0.5dB	
- single	8 - 8-way		U - Universal - Splitter/Combiner		
	DC - Directional Coupler		XX—Coupled Port Attenuation		