

DOCSIS 4.0 Compliant

Designed with expanded bandwidth for future applications

Features & Benefits

- *Comparative to other manufacturers the HPS Series modules are engineered for best in class performance in port-to-port isolation, return loss, and frequency response within the working frequency range of 5-1800 MHz*
- *HPS "E" Series Modules offer a minimum - 30dB port-to-port isolation and minimum return loss specification of 20dB.*
- *CommDev Modules are designed to be installation compatible within CommDev, Maxnet, or SignalOn Series Chassis*
- *Our very competitive pricing structure allows customers to realize significant cost savings.*
- *Custom designs welcomed.*

CommDev now offers an all new Advanced Series of Head End Passive Modules for the HPS platform designated as Series "E". These all new models include a variety of configurations to fit the standard HPS Series 1RU, 2RU or 5RU Chassis.

The new HPS "E" Series of passive modules provide RF signal management solutions for modern CATV Head-end or Hub site applications to meet the requirements of DOCSIS 4.0 standards.

HPS "E" Series passive modules are designed for an expanded Broadband frequency range; made available in a variety of configurations. Modules are designed as universal or "bi-directional splitters/combiners", or as specialized unidirectional combiners or splitters featuring -20 dB test port. All configurations 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.

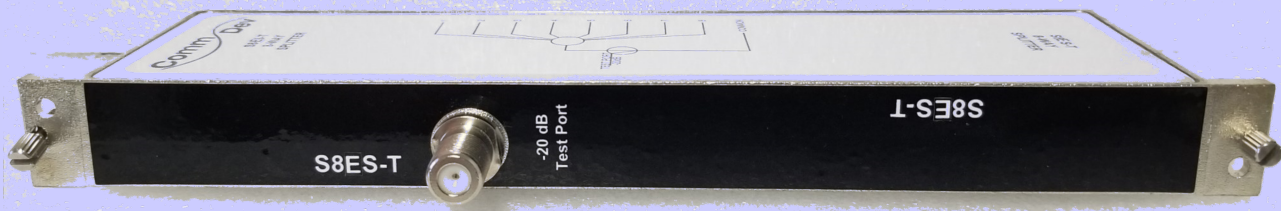
To maximize utilization of rack space the 2- and 4-way models are packaged by three and two correspondingly while occupying a single slot in the modular chassis. Directional couplers are also available and packaged by three in a single housing. Modular passives are designed with internal walls which 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.

**THREE YEAR PARTS AND LABOR
WARRANTY INCLUDED**

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Insertion Loss

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

Module Type	Model #	Frequency 5MHz ← → 1800MHz						
		5-10MHz	10-200MHz	200-500MHz	500-1000MHz	1000-1218MHz	1218-1600MHz	1600-1800MHz
Universal	T2EU	3.4dB	3.5dB	3.6dB	3.8dB	3.9dB	4.4dB	4.9dB
Combiner	T2EC-T	4.0dB	4.1dB	4.2dB	4.8dB	5.2dB	5.6dB	6.7dB
Splitter	T2ES-T	4.0dB	4.1dB	4.2dB	4.8dB	5.2dB	5.6dB	6.7dB
Universal	D4EU	6.7dB	6.8dB	7.3dB	7.6dB	8.0dB	9.5dB	11.0dB
Combiner	D4EC-T	7.3dB	7.4dB	7.7dB	8.5dB	9.1dB	10.2dB	11.7dB
Splitter	D4ES-T	7.3dB	7.4dB	7.7dB	8.5dB	9.1dB	10.2dB	11.7dB
Universal	S8EU	10.6dB	10.4dB	10.5dB	11.4dB	11.9dB	13.8dB	15.5dB
Combiner	S8EC-T	11.2dB	11.0dB	11.5dB	11.7dB	12.3dB	13.5dB	16.3dB
Splitter	S8ES-T	10.7dB	10.8dB	10.9dB	11.7dB	12.3dB	13.5dB	16.3dB
	DC 20dB	0.7dB	0.7dB	0.8dB	0.9dB	1.1dB	1.4dB	1.5dB
	DC 9dB	1.6dB	1.5dB	1.6dB	1.9dB	2.2dB	2.9dB	3.9dB

Return Loss "Common" Port

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

Model	Frequency 5MHz ← → 1800MHz						
	5-10MHz	10-200MHz	200-500MHz	500-1000MHz	1000-1218MHz	1218-1600MHz	1600-1800MHz
All Modules	20dB	20dB	20dB	20dB	20dB	20dB	20dB

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Return Loss all "In" or "Out" Ports

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

Model	Frequency 5MHz ← → 1800MHz						
	5-10MHz	10-200MHz	200-500MHz	500-1000MHz	1000-1218MHz	1218-1600MHz	1600-1800MHz
All Modules	20dB	20dB	20dB	20dB	20dB	20dB	20dB

Isolation Port to Port

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

Module Type	Model #	Frequency 5MHz ← → 1800MHz						
		5-10MHz	10-200MHz	200-500MHz	500-1000MHz	1000-1218MHz	1218-1600MHz	1600-1800MHz
Universal	T2EU	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Universal	D4EU	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Universal	S8EU	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Combiner	T2EC-T	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Splitter	T2ES-T	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Combiner	D4EC-T	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Splitter	D4ES-T	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Combiner	S8EC-T	30dB	30dB	30dB	30dB	30dB	30dB	30dB
Splitter	S8ES-T	30dB	30dB	30dB	30dB	30dB	30dB	30dB
	DC 20dB	40dB	40dB	40dB	40dB	40dB	40dB	37dB
	DC 9dB	28dB	30dB	30dB	30dB	30dB	30dB	30dB

Isolation between modules in a single housing for 2-way and 4-way models is better than 85 dB.

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HPS "E" Series Passive Module Model # Reference

<i>First</i>	<i>Second</i>	<i>Third</i>	<i>Fourth</i>	<i>Fifth</i>	<i>Sixth</i>
"T" Triple	"2" 2-way	"E" Series Expanded Bandwidth Frequency Range 5-1800MHz.	"S" Splitter	"T" Test Port -20 dB±0.5dB	"E" Equalizer
"D" Dual	"4" 4-way		"C" Combiner		
"S" Single	"8" 8-way		"U" Universal		
"DC" Directional Coupler					