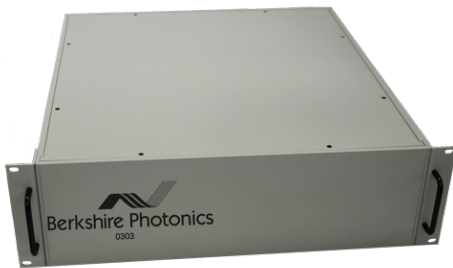


030V-D Series - Rack Mount Fiber Optic Delay Modules

D (Delay) Modules -

The 030V-D Series precision delay modules provide a optical delay line for 1310 and 1550nm applications in an industry standard 19 inch rack enclosure. Fiber Optic Delay Line deliver unmatched performance for radar testing, signal processing phased array antennas and phase noise testing to name a few.

The 030V-D series uses standard single-mode fiber for applications requiring maximum delay length. Please specify desired delay length in microseconds when ordering or overall fiber length. Greater delays or longer lengths upon request. Wavelength must be identified prior to ordering.



Product Line	Size	Max. Delay	Max. Length
0301-D	1U	110 μ s	24km
0303-D	3U	350 μ s	72km
0305-D	5U	600 μ s	120km

Optical Properties	
Attenuation @1550nm	≤ 0.21 db/km
Attenuation @1310nm	≤ 0.34 db/km
IOR @1550nm	1.468
IOR @1310nm	1.467
Zero Dispersion Wavelength	1312 \pm 10nm
Zero Dispersion Slope	≤ 0.090 ps/nm ² -km
Typical Dispersion Slope	0.087 ps/nm ² -km
Typical Total Dispersion @1550nm	16.2 ps/nm-km

Mechanical Properties			
	0301 Models	0303 Models	0305 Models
Body Dimensions (in.)	16.6x1.72x13	16.6x5.22x18	16.6x8.72x18
Faceplate Dimensions	19x1.75 (1U)	19x5.25 (3U)	19x8.75 (5U)
Storage Temperature	-60°C to +85°C	-60°C to +85°C	-60°C to +85°C
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C

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Options

Midspan Breakouts

For some applications, particularly coils greater than 50km in length for 1550nm applications, higher signal levels and more configurability is required. For these cases, midspan breakouts can be placed at every 50km (about every 245 μ s) interval of the 0300 Series Delay and Dispersion Compensation Modules to allow the insertion of optical amplification (EDFA).

Pigtail Leads

If preferred, the standard bulkhead adapter for input and output can be replaced with one meter long pigtails with a male connector on the end.

Ordering Information

030V-WXXX...-YY[B][P][M]

V = Rack Unit Size	
1	19x1.75 (1U)
3	19x5.25 (3U)
5	19x8.75 (5U)
XXX... = Delay in μ s	
10	10 μ s Delay
100	100 μ s Delay
240	240 μ s Delay
Options	
B	Bulkhead
P	Pigtail Leads
M	Midspan Breakouts

W = Coil Type	
D	Standard Delay
YY = Connector Type	
SA	SC/APC
SC	SC/UPC
FA	FC/APC
FC	FC/UPC
LA	LC/APC
LC	LC/UPC
EA	E2000/APC

Examples:

0305-D400-SAPM: 5U Enclosure 400 μ s SC/APC pigtails, and midspan breakout every 50km

0303-D25/D25/D25/D25-LAP: 3U Enclosure, 25 μ sec Quad Delay, LC/APC Pigtails

0301-7000-SA: 1U Enclosure, 7km (leave off "D" when ordering in required length), SC/APC Bulkhead

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