

## Optribution® Delay Lines



*The final product may vary from the above image depending on the options selected.*

### Products:

**DEV 7858** Optical Delay Line; SC/APC; 1 RU

**DEV 7859** Optical Delay Line; SC/APC; 3 RU

### Features:

- Optical Delay Lines in 1 RU or 3 RU Chassis
- Time Delay from 5  $\mu$ s up to 170  $\mu$ s (DEV 7858) or from 170  $\mu$ s up to 660  $\mu$ s (DEV 7859)
- High Delay Accuracy
- Low Attenuation
- Optical Connector Options

**DEV 7858      Optical Delay Line; SC/APC; 1 RU**

	Value	Condition
<b>Optical Specifications</b>		
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
Fiber Type	Single Mode 9/125 $\mu$ m	
Wavelength	1310...1625 nm	
Attenuation	<0.35 dB/km @ 1310 nm <0.20 dB/km @ 1550 nm <0.23 dB/km @ 1625 nm	Notes 1, 2
Time Delay	5...170 $\mu$ s	Note 3
Delay Accuracy	$\pm$ 1 %, $\pm$ 50 ns, or $\pm$ 5 ns	Standard is $\pm$ 1 %, refer to Options
<b>General Specifications</b>		
Size	19" (483 mm) Width, 1 RU (45 mm) Height, 17.7" (450 mm) Depth	
Weight	7...10 kg	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	

Note 1: Without connector loss

Note 2: For total optical attenuation, add 1 dB connector losses (i.e. 0.5 dB per connector)

Note 3: Calculations are based on physical lengths of the optic fiber; delay is assumed as 4.9  $\mu$ sec/km

**DEV 7859      Optical Delay Line; SC/APC; 3 RU**

	Value	Condition
<b>Optical Specifications</b>		
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
Fiber Type	Single Mode 9/125 $\mu$ m	
Wavelength	1310...1625 nm	
Attenuation	<0.35 dB/km @ 1310 nm <0.20 dB/km @ 1550 nm <0.23 dB/km @ 1625 nm	Notes 1, 2
Time Delay	170...660 $\mu$ s	Note 3
Delay Accuracy	$\pm$ 1 %, $\pm$ 50 ns, or $\pm$ 5 ns	Standard is $\pm$ 1 %, refer to Options
<b>General Specifications</b>		
Size	19" (483 mm) Width, 3 RU (133 mm) Height, 19.5" (495 mm) Depth	
Weight	7...18 kg	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	

Note 1: Without connector loss

Note 2: For total optical attenuation, add 1 dB connector losses (i.e. 0.5 dB per connector)

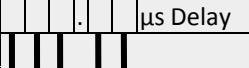

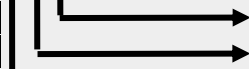

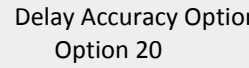
Note 3: Calculations are based on physical lengths of the optic fiber; delay is assumed as 4.9  $\mu$ sec/km

## Order Information

### Products

DEV 7858	Optical Delay Line; SC/APC; 1 RU
DEV 7859	Optical Delay Line; SC/APC; 3 RU

Please select the **Time Delay** for the Application:

µs Delay	Option	Delay Step Size	
	Option 61	10 ns	162.85 µs for example is to be ordered as: 5 * Option 61 8 * Option 62 2 * Option 63 6 * Option 64 1 * Option 65
	Option 62	100ns	
	Option 63	1 µs	
	Option 64	10 µs	
	Option 65	100 µs	

### Delay Accuracy Options

Option 20	Enhanced Delay Accuracy ±50 ns
Option 21	Enhanced Delay Accuracy ±5 ns

### Optical Connector Options

Option 07	FC/APC Optical Connector
Option 08	E2000/HRL Optical Connector

## Contact

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*Technical specifications are subject to change*