

BrightEye 46

3G/HD/SD/ASI Electrical to Optical Converter

Serial Digital Input

Number	One
Signal Type	270 Mb/s SD Serial Digital (SMPTE 259M) 1.485 Gb/s HD Serial Digital (SMPTE 274M, 292M or 296M) 2.97 Gb/s HD Serial Digital (SMPTE 424M, 425M) Level A, Level B
Impedance	75 Ω
Return Loss	>15 dB to 1.485 GHz >10 dB to 2.97 GHz
	Max Cable Length 300 meters for 270 Mb/s 100 meters for 1.485 Gb/s 70 meters for 2.97 Gb/s (Belden 1694A)

Automatic Input Cable Equalization

Serial Digital Output

Number	Four
Signal Type	3G/HD/SD/ASI Serial Digital, follows input
Impedance	75 Ω
Return Loss	>15 dB to 1.485 GHz >10 dB to 2.97 GHz
Output DC	None (AC coupled)

Optical Output

Number	One
Type	SD and ASI (SMPTE 297M, optical equivalent of 259M) 1.485 Gb/s HD (SMPTE 274M, 292M or 296M) 2.97 Gb/s HD (SMPTE 424M, 425M)
Wavelength	1310 nm (non-CWDM) Wavelengths 170 nm – 1610 nm at 20 nm CWDM spacing available. Call factory for price and specify part number BE46-SP.
Weight	1 lb 2.3oz
Power	-7 dBm
Max Cable Length	20 km (For greater distances, or higher power and larger loss budgets, please contact the factory)
Fiber Type	Single Mode Multi-mode compatible with attenuation at transmit end
Connector	LC/UPC

General Specifications

Size	5.625" W x 0.8" H x 5.5" D (143 mm x 20 mm x 140 mm) including connectors
Weight	15 oz
Power	12 volts, 7 watts (100-230 VAC modular power supply)
Temperature Range	0 to 40° C ambient (all specs met)
Relative Humidity	0 to 95° non-condensing
Altitude	0 to 10,000 ft.

