

**Broadband Solutions**

760150912 | BOS-TX-05-0033-LHAND-SC

Optical Transmitter, 5 dBm output, ITU 33, high SBS, AGC, dc powering, SC/APC connectors, one optical output

Optical Specifications

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|---|--|
| ITU Channels | 33 |
| Output Ports, quantity | 1 |
| SBS Threshold | 19 dBm into 20 km |
| Distortion Performance (CNR), minimum | 47 dB |
| Distortion Performance (CSO), maximum | 60 -dBc (relative to carrier) |
| Distortion Performance (CTB), maximum | 63 -dBc (relative to carrier) |
| Distortion Performance Note (CNR) | With 77 NTSC channels plus 75 QAM, up to 40 km of fiber -5 dBm received power into analog receiver with noise current density <5pA/sqrt(Hz), with EDFA |
| Distortion Performance Note (CSO) | With 77 NTSC channels plus 75 QAM, up to 40 km of fiber -5 dBm received power into analog receiver with noise current density <5pA/sqrt(Hz), with EDFA |
| Distortion Performance Note (CTB) | With 77 NTSC channels plus 75 QAM, up to 40 km of fiber -5 dBm received power into analog receiver with noise current density <5pA/sqrt(Hz), with EDFA |
| Output Power per Wavelength | 5 dBm |
| Wavelength on ITU Channels at 100 GHz Spacing | 1550.92 nm (ITU 33) |

Rf Specifications

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|--|--|
| Flatness at Frequency Band, typical (Peak to Valley) | 0.8 dB @ 50–550 MHz 1.2 dB @ 50–1002 MHz |
| Input Level at Broadcast Port, AGC mode | 18 dBmV |
| Input Level at Broadcast Port, MGC mode | 15 dBmV |
| Input Return Loss, typical | 16 dB |
| Operating Frequency Band | 50–1002 MHz |
| Set-point Offset Range, nominal, AGC mode | ±2.0 dB |
| Test Point Flatness, typical | ±0.8 dB |
| Test Point Level (Analog), typical | -2.0 dBmV |

Electrical Specifications

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|----------------------------|--------------------------------|
| Voltage Range | -42 to -56 Vdc |
| Electrical Safety Standard | c-UL-us CE US FCC Part 15A |
| Power Consumption, maximum | 80.0 W |

Environmental Specifications

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|-----------------------|------------------------------------|
| Operating Temperature | 0 °C to +50 °C (+32 °F to +122 °F) |
|-----------------------|------------------------------------|

Mechanical Specifications

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|-------------------------------|---------------|
| Communications Port Interface | RJ45 |
| Optical Port Interface | SC/APC Female |
| RF Port Impedance | 75 ohm |

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|-------------------|----------|
| RF Port Interface | F Female |
| Serial Port | RS-232 |

General Specifications

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|------------|-----------|
| Brand | BOS™ |
| Rack Type | EIA 19 in |
| Rack Units | 1 |
| Warranty | One year |

Dimensions

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|------------|----------------------|
| Depth | 431.80 mm 17.00 in |
| Height | 44.45 mm 1.75 in |
| Net Weight | 8.16 kg 18.00 lb |
| Width | 482.60 mm 19.00 in |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |

* Footnotes

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| Distortion Performance (CNR), minimum | CNR—Composite Carrier to Noise Ratio |
| Distortion Performance (CSO), maximum | CSO—Composite Second Order |
| Distortion Performance (CTB), maximum | CTB—Composite Triple Beat |
| Distortion Performance Note (CNR) | CNR—Composite Carrier to Noise Ratio |
| Distortion Performance Note (CSO) | CSO—Composite Second Order |
| Distortion Performance Note (CTB) | CTB—Composite Triple Beat |
| Input Level at Broadcast Port, AGC mode | AGC—Automatic Gain Control; 80 analog channels +73 QAM at 6 dB below analog channels |
| Input Level at Broadcast Port, MGC mode | MGC—Manual Gain Control; 80 analog channels +73 QAM at 6 dB below analog channels |
| SBS Threshold | SBS—Stimulated Brillouin Scattering |