

Technical Specifications

DFB Laser Replacements for ISX 3030/3040 Nodes

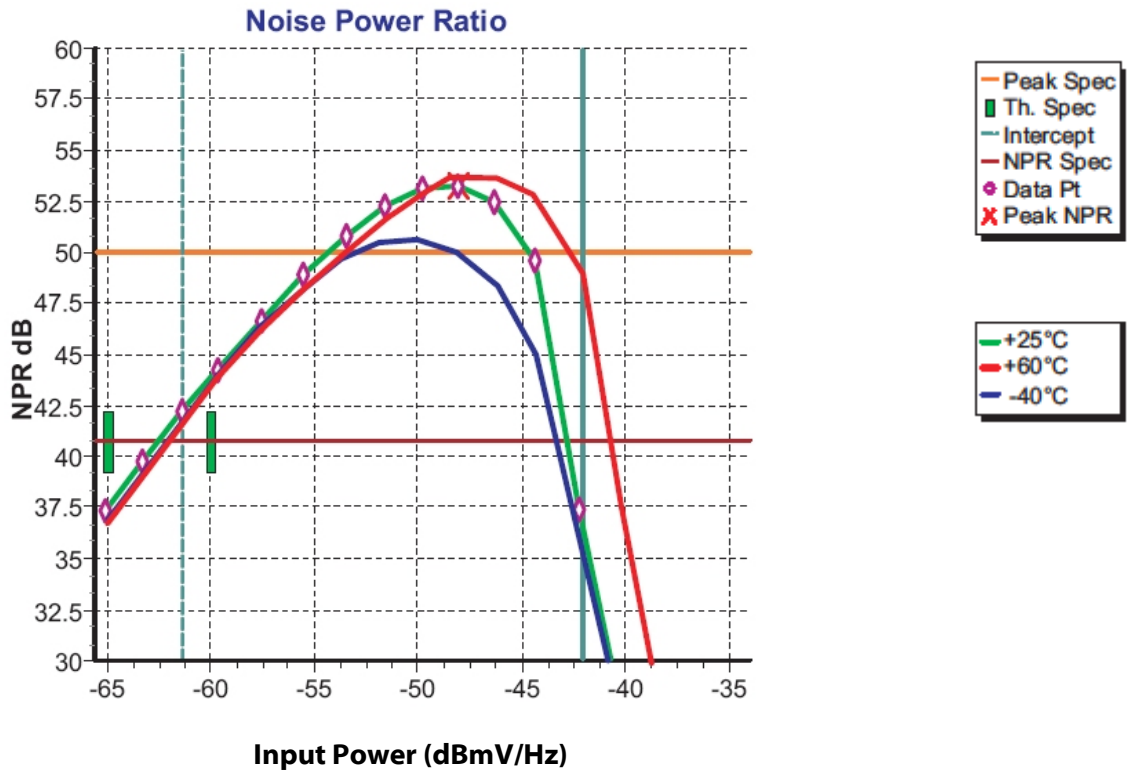
Technical Specifications for DFB Analog Return Path Transmitter Replacements for ISX Nodes			
Specifications	1310 DFB	1550 DFB	1471-1611nm - 8 CWDM Channels – 20nm Spaced
Optical			
Output Power, mW ¹	2.0	2.0	2.5
Return Loss	>60 dB with APC connector	>60 dB with APC connector	>60 dB with APC connector
Laser Type, Isolated Uncooled	DFB	DFB	DFB
Transmitted Wavelength, nm	1310 ± 20	1550 ± 25	CWDM ITU Channel ± 7.5
Optical Power Voltage Testpoint	1 mW/V	1 mW/V	1 mW/V
RF			
Impedance, Ω	75	75	75
RF Bandpass, MHz	5 to 220	5 to 220	5 to 220
Return Loss, dB	16	16	16
Performance			
NPR, dB ²	>15 dB over 41 dB NPR	>15 dB over 41 dB NPR	>15 dB over 41 dB NPR
Powering			
Supply Voltage, V _{DC}	24 ± 0.5	24 ± 0.5	24 ± 0.5
Current Draw, mA, typ.	65	65	65
Physical			
Laser On Indicator	LED	LED	LED
Input Level Control	SXP Pad	SXP Pad	SXP Pad
Optical Connector Types	SC/APC, FC/APC, SC/UPC, FC/UPC		
Operating Temperature, °C ³	-40 to 60	-40 to 60	-40 to 55
H x W x D, in. (cm)	6.3 x 4.7 x 10.1 (16.0 x 11.9 x 25.65)	6.3 x 4.7 x 10.1 (16.0 x 11.9 x 25.65)	6.3 x 4.7 x 10.1 (16.0 x 11.9 x 25.65)
Weight, packaged, lbs (kg)	1.44 (0.65)	1.44 (0.65)	1.44 (0.65)

¹Measured at output of bulkhead connector

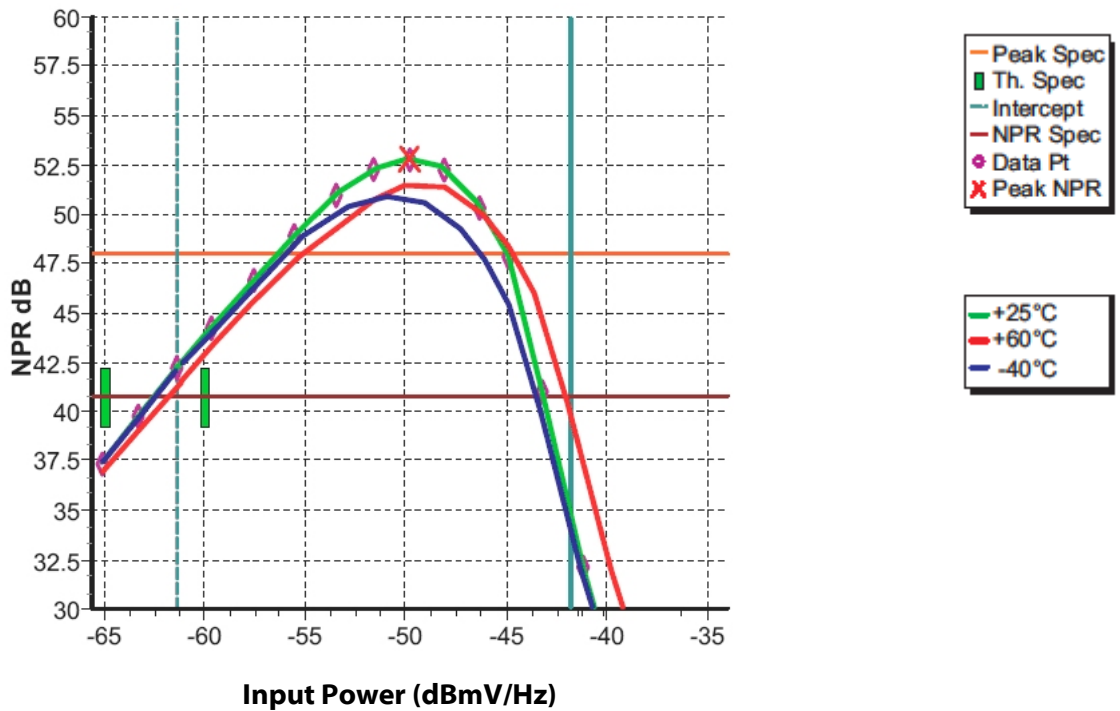
²Measured over 17 km fiber link using 35 MHz channel loading

³Node Operational temperature specification

1310 nm DFB - NPR Curve



1550 nm DFB/CWDM - NPR Curve



Ordering Matrix for DFB Laser Replacements

1505981-001	1471 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505981-002	1471 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505981-003	1471 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505981-004	1471 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1505982-001	1491 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505982-002	1491 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505982-003	1491 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505982-004	1491 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1505983-001	1511 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505983-002	1511 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505983-003	1511 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505983-004	1511 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1505984-001	1531 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505984-002	1531 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505984-003	1531 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505984-004	1531 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1505564-001	1551 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505564-002	1551 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505564-003	1551 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505564-004	1551 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1505985-001	1571 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505985-002	1571 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505985-003	1571 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505985-004	1571 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1505986-001	1591 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505986-002	1591 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505986-003	1591 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505986-004	1591 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1505987-001	1611 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/APC
1505987-002	1611 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW SC/UPC
1505987-003	1611 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/APC
1505987-004	1611 nm LEGACY ISX CWDM ANALOG RETURN TX 2.5mW FC/UPC
1504724-001	1310 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.0mW SC/APC
1504724-002	1310 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.0mW SC/UPC
1504724-003	1310 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.0mW FC/APC
1504724-004	1310 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.0mW FC/UPC
1504726-001	1550 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.5mW SC/APC
1504726-002	1550 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.5mW SC/UPC
1504726-003	1550 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.5mW FC/APC
1504726-004	1550 nm LEGACY ISX3030 DFB ANALOG RETURN TX 2.5mW FC/UPC