

PRE-SFPDR21Dxx-120I

SFP, DWDM, Digital Return, SMF, 120km, 2.1Gbps



Product Features:

- EML Transmitter
- APD Receiver
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- Industrial Temperature
- ITU Channels 17 to 61, 100GHz Spacing



Product Applications:

- Hardened Digital Return Applications
- Multi-Protocol 125Mbps to 2.5Gbps

General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Industrial)	T_{op}	-40	-	85	°C
Power Consumption	P_w	-	-	2.3	W
Power Supply Current	I_{cc}	-	-	730	mA
Power Supply Voltage	V_{cc}	3.13	3.3	3.47	V
Storage Humidity	H_s	5	-	95	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance	TD	-	-	120	km
Data Rate (Total)	DR_T	.125	2.125	2.5	Gbps

PRE-SFPDR21Dxx-120I

SFP, DWDM, Digital Return, SMF, 120km, 2.1Gbps



Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	λ_c	1528.77	-	1563.86	nm
Transmit Power	P_{OUT}	3	-	6	dBm
Spectral Width	σ	-	-	.4	nm
Extinction Ratio	ER	8.2	-	-	dB
Dispersion Penalty (2400ps/nm)	TDP	-	-	2	dB

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength	λ_r	1525	-	1575	nm
Input Saturation Power	P_{SAT}	-7	-	-	dBm
Receiver Sensitivity	R	-	-	-29	dBm
LOS Assert	LOS_A	-32	-	-	dBm
LOS De-Assert	LOS_D	-	-	-30	dBm
LOS Hysteresis	LOS_H	-	2	5	dB

Product Ordering Information

Part Number	Description
PRE-SFPDR21Dxx-120I	SFP, DWDM, Digital Return, SMF, 100km, 2.1Gbps