



MODULE SFP 1GE UPLINK



Description

The Optical Transceivers Modules are components used in conjunction to the optical PON ports and the Uplink of the Furukawa EPON and GPON OLT platform, featuring optical ports, acting as a modulators/demodulators in order to perform an optical/electrical conversion in PON networks, thus enabling data transmission over the optical network between the switch and the PON platform.

General Characteristics

Parameter	Min	Typical	Max
Voltage (Vcc)	3.14	3.3	3.46
Current (mA)	-	-	300
Operating Temperature (°C)	0	25	70
Storage Temperature (°C)	-40	-	85
Relative Humidity - Operating (%)	0	-	80
Relative Humidity - Storage (%)	0	-	95

Technical Characteristics

MODULE SFP 1GE SX 850NM (550M) - Part Number: 35510267 LC-PC Connector // Multimode

Transmission	Parameter	Min	Typical	Max
	Transmission Type	850nm VCSEL		
	Sinalization speed +/- 100 ppm (Mbps)	1250		
	Average launch power (dBm)	-9,5	-	0
	Peak to Peak Jitter (UI)	-	-	0.20
	Optical rise and fall time (ps)	-	-	260
	Central optical wavelength (nm)	830	850	860
	Spectral line @ -20 dB (nm)	-	-	0.85
	Side suppression mode (dB/Hz)	-	-	-117
	Extinction ratio (dB)	9.0	-	-

Reception	Parameter	Min	Typical	Max
	Receiving type	PIN/TIA		
	Wavelength (nm)	770	-	860
	Receiving Sensitivity (dBm)	-	-	-17
	Receiving optical overload (dBm)	0	-	-
	Receiver Reflectance (dBm)	-	-	-12

Module SFP 1GE LX 1310NM C/ DDM (10KM) - Part Number: 35510291

LC-PC Connector // Singlemode

Transmission	Parameter	Min	Typical	Max
	Transmission Type	1310nm F-P		
	Sinalization speed +/- 100 ppm (Mbps)	1250		
	Average launch power (dBm)	-9,5	-	-3
	Peak to Peak Jitter (UI)	-	-	0.20
	Optical rise and fall time (ps)	-	-	260
	Central optical wavelength (nm)	1270	1310	1355
	Spectral line (nm)	-	-	4
	Extinction ratio (dB)	9.0	-	-

Reception	Parameter	Min	Typical	Max
	Receiving type	PIN/TIA		
	Wavelength (nm)	1260	-	1620
	Receiving Sensitivity (dBm)	-	-	-21
	Receiver optical overload (dBm)	-3	-	-
	Receiver Reflectance (dBm)	-	-	-12

Module SFP 1GE LX 1310NM (20KM) - Part Number: 35510269
LC-PC Connector // Singlemode

Transmission	Parameter	Min	Typical	Max
	Transmission Type	1310nm F-P		
	Sinalization speed +/- 100 ppm (Mbps)	1250		
	Average launch power (dBm)	-9,5	-	-3
	Peak to Peak Jitter (UI)	-	-	0.20
	Optical rise and fall time (ps)	-	-	260
	Central optical wavelength (nm)	1260	1310	1360
	Spectral line (nm)	-	-	4
	Extinction ratio (dB)	9	-	-

	Parameter	Min	Typical	Max
Reception	Receiving type	PIN/TIA		
	Wavelength (nm)	1260	-	1620
	Receiver Sensitivity (dBm)	-	-	-23
	Receiving optical overload (dBm)	-3	-	-
	Receiver Reflection (dBm)	-	-	-12

Module SFP 1GE LX 1310NM (40KM) - Part Number: 35510270
LC-PC Connector // Singlemode

	Parameter	Min	Typical	Max
Transmission	Transmission Type	1310nm F-P		
	Signalization speed +/- 100 ppm (Mbps)	1250		
	Average launch power (dBm)	-5	-	0
	Peak to Peak Jitter (UI)	-	-	0.20
	Optical rise and fall time (ps)	-	-	260
	Central optical wavelength (nm)	1270	1310	1355
	Spectral line (nm)	-	-	1
	Extinction ratio (dB)	9.0	-	-

	Parameter	Min	Typical	Max
Reception	Receiving type	PIN/TIA		
	Wavelength (nm)	1260	1310	1620
	Receiving Sensitivity (dBm)	-	-	-23
	Receiver optical overload (dBm)	-3	-	-
	Receiver Reflection (dBm)	-	-	-12

Security
CAUTION

- * This device emits invisible radiation that can cause irreparable damage to vision. Never look straight to the output with the connected equipment.
- * Do not test the equipment in optical loop without the use of an appropriate attenuator. The warranty does not cover this kind of damage.
- * This equipment is sensitive to static electricity.
- * Contact us for more information about the proper handling of this equipment.

[Part Numbers](#)