MODULE SFP+ 10GE UPLINK

FBS
FURUKAWA BROADBAND SYSTEM

Description

The Optical Transceivers Modules are components used in conjuction to the optical PON ports and the Uplink of the Furukawa EPON and GPON OLT plataform, 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 plataform.

General Characteristics

Parameter	Min	Typical	Max
Voltage (Vcc)	3.135	3.3	3.465
Current (mA)	-	350	450
Operating Temperature (ºC)	0	25	70
Storage Temperature (ºC)	-40	-	85
Relative Humidity - Operating (%)	5	-	80
Relative Humidity - Storage (%)	5	-	95

Technical Characteristics

Module SFP+ 10GE SR 850NM (300M) - Part Number: 35510492
LC Connector // Multimode

	Parameter	Min	Typical	Max
Transmission	Data rate (Gbps)		9.95 to 10.5	
	Average optical power (dBm)	-6.5	-	-1
	Dispersion penalty (dB)	-	-	3.9
	Central optical wavelength (nm)	840	850	860
	Relative Intensity Noise (dB/Hz)	-	-	-128
	Extinction ratio (dB)	3.5	-	-
Reception	**Parameter**	**Min**	**Typical**	**Max**
	Receiver type		PIN/TIA	
	Center Wavelength (nm)	840	850	860
	Receiver Sensitivity (dBm)	-	-	-11.1
	Overload (dBm)		-	-1
	Receiver reflectance (dB)	-	-	-12

Module SFP+ 10GE LR 1310NM (10KM) - Part Number: 35510271
LC Connector // Singlemode

	Parameter	Min	Typical	Max
Transmission	Data rate (Gbps)		9.95 to 10.5	
	Average optical power (dBm)	-8.2	-	0.5
	Dispersion penalty (dB)	-	-	3.9
	Center Wavelength (nm)	1260	-	1355
	Relative Intensity Noise (dB/Hz)		-	-128
	Extinction ratio (dB)	3.5	-	-
Reception	**Parameter**	**Min**	**Typical**	**Max**
	Receiver type		PIN/TIA	
	Center Wavelength (nm)	1260	-	1355

	Receiver sensitivity (dBm)	-	-	-12
	Receiver power (damage) (dBm)	-	-	1.5
	Receiver reflectance (dB)	-	-	-12

Module SFP+ 10GE ER 1550NM (40KM) - Part Number: 35510494
LC Connector // Singlemode

Transmission	Parameter	Min	Typical	Max
	Data rate (Gbps)		9.95 to 10.5	
	Average optical power (dBm)	-3	-	3
	Dispersion penalty (dB)	-	-	2
	Center wavelength (nm)	1530		1565
	Relative Intensity Noise (dB/Hz)	-	-	-128
	Extinction ratio (dB)	6	-	-
Reception	**Parameter**	**Min**	**Typical**	**Max**
	Receiver type		PIN/TIA	
	Center Wavelength (nm)	1250	-	1600
	Receiver sensitivity (dBm)	-	-	-14.1
	Receiver power (damage) (dBm)		-	5
	Receiver reflectance (dB)	-	-	-26

Module SFP+ 10GE ZR 1550NM (80KM) - Part Number: 35510495
LC Connector // Singlemode

Transmission	Parameter	Min	Typical	Max
	Data rate (Gbps)		9.95 to 10.5	
	Average optical power (dBm)	0	-	4
	Dispersion penalty (dB)	-	-	3
	Center Wavelength (nm)	1530	-	1565
	Relative Intensity Noise (dB/Hz)	-	-	-128
	Extinction ratio (dB)	9	-	-
Reception	**Parameter**	**Min**	**Typical**	**Max**
	Receiver type		PIN/TIA	
	Center Wavelength	1250	-	1600
	Receiver sensitivity (dBm)	-24	-	-7
	Receiver power (damage)(dBm)		-	1
	Receiver reflectance (dB)	-	-	-26

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