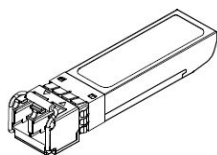
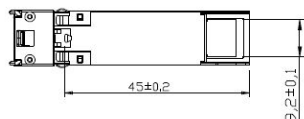
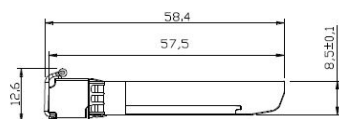




Fibre Optic Active

SFP+ 10GB Singlemode SM 20km



Units in mm

Product Description

Briticom® Small Form-Factor Pluggable (SFP) Fibre Optic Transceivers are used to interface networking devices to fibre or copper networking cables in Telecom and data applications.

Features & Benefits

- SFP+ package with LC connector
- 1330nm DFB Laser and PIN photo detector
- Up to 20km transmission on SMF
- Power dissipation < 1W
- LVPECL compatible data input/output interface
- Low EMI and excellent ESD protection
- laser safety standard IEC-60825 compliant
- Compatible with RoHS
- Compatible with SFF8472

Applications & Standards

- Ethernet
- Fiber Channel

Operation Environment

PARAMETER	SYMB	MIN	TYP.	MAX	UNIT
Supply Voltage	Vcc	3.15	-	3.45	V
Operating Case Temperature	Tc	-5	-	+70	°C
Power Dissipation	-	-	-	1	W
Data Rate	-	-	10.3125	-	Gbps

To Order

To place an order, use the contact details below.



Optical Characteristics

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT
Transmitter Section					
Center Wavelength	λ_0	1310	1330	1350	nm
Side-Mode Suppression Ratio	SMSR	35	-	-	dB
Average Output Power	Po	0	-	+4	dBm
Extinction Ratio	Er	3.5	-	-	dB
Dispersion Penalty				3.2	dB
Relative Intensity Noise	RIN _{OMA}			-128	dB/Hz
Total Jitter	Tj	IEEE 802.3AE			
Receiver Section					
Center Wavelength	λ_0		1330		nm
Receiver Sensitivity	Rsen			-15	dBm
Stressed Sensitivity	Rsen			-15.5	dBm
Receiver Overload	Rov	-3			dBm
Return Loss		12			dB
LOS Assert	LOS _A	-28			dBm
LOS Dessert	LOS _D			-16	dBm
LOS Hysteresis		0.5		4	

Electrical Characteristics

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT
Transmitter Section					
Input Differential Impedance	Zin	90	100	110	Ohm
Data Input Swing Differential	Vin	180		700	mV
TX Disable	Disable	in		Vcc	V
	Enable	0		0.8	V
TX Fault	Assert	2.0		Vcc	V
	Deassert	0		0.8	V
Receiver Section					
Output Differential Impedance	Zout		100		Ohm
Data Output Swing Differential	Vout	300		800	mV
Rx_LOS	Assert	2.0		Vcc	V
	Deassert	0		0.8	V

To Order

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Fibre Optic Active

SFP+ 10GB Singlemode SM 20km

Ordering Information

Use combinations of **bold** letters and numbers to create part numbers for ordering.

Product		Type		Coding Type*	
SFP	SFP	RJ	RJ45	CIS	Cisco
XFP	XFP	SM	Single-mode	HP	HP
QSFP	QSFP	MM	Multimode	JP	Juniper
SFP+	SFP+	BIDI	Bi-Directional	EX	Extreme
		WDM	WDM		Leave empty if no coding
		DDMI	DDMI		
		DWDM	DWDM		
		CWDM	CWDM		
▲		▲		▲	
SFP	GX	SM	20	CIS	
	▼		▼		
100M	ET	100m	100		
1GB	G1	500m	500		
2GB	G2	2km	2		
5GB	G5	10km	10		
6GB	G6	20km	20		
10GB	GX	40km	40		
20GB	G2X	80km	80		
40GB	G4X	120km	120		
100GB	GXX				
Speed		Distance			

*Leave column blank if no coding

Example Part Number	
Description	Part Number
SFP+ 10GB Singlemode 20km Cisco	SFPPGXSM20CIS

To Order

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