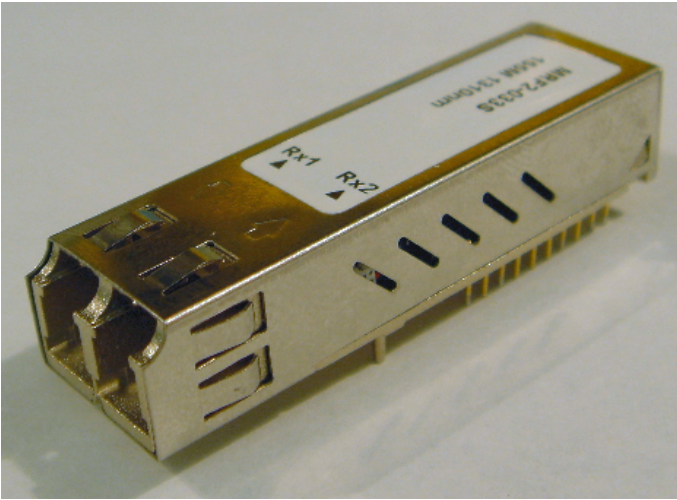

LC SFF 2×10 Dual Receive Module



Features

- Two long-reach receivers in one device
- Duplex LC receptacle optical interface:
2×10 Small Form Factor package
- Meet SFF MSA
- Single +3.3V Power Supply
- 1310/1550nm operating wavelength
- For optic fiber access network, ATM, SDH, PDH
optic fiber transmission system with bit rate up to
622Mb/s

Specifications(T=25 °C)

Parameter	Condition	Min	Type	Max
Wavelength(nm)	1310	1260	1310	1360
	1550	1480	1550	1580
Power supply(V)	Vcc	3.135	3.3	3.465
Signal level(Vpp)	LVPECL		0.8	
Output spectral width(nm)	FP-LD,RMS			N.A.
	DFB-LD, -20dB			N.A.
SMSR (dB)	DFB-LD	N.A.		
Average output optical power(dBm)	Short-reach	N.A.		N.A.
	Long-reach	N.A.		N.A.
Extinction ratio(dB)	EX	N.A.		
Sensitivity(dBm)	155Mb/s		-37	-34
	622Mb/s		-30	-28
Overload(dBm)	BER=1×10 ⁻¹⁰	-3		
LOS(dB)(LVPECL)	Deassert		-4	
	Assert		-1	

LOS hysteresis (dB)			3	
Current of transmitter section (mA)			N.A.	
Current of receiver section (mA)			120	
Transmitter disable voltage(V)	N.A.		N.A.	
Transmitter enable voltage(V)	N.A.		N.A.	

Absolute maximum ratings

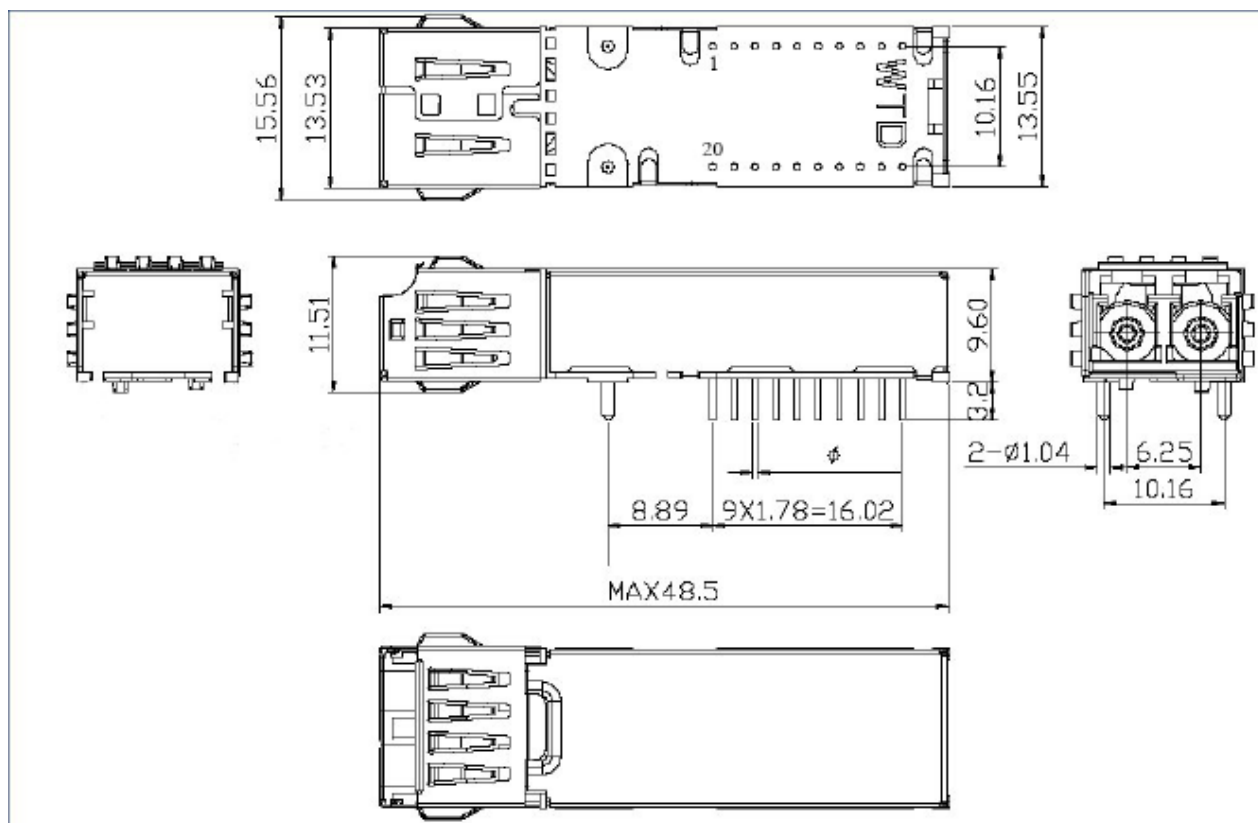
Storage temperature(°C)	-40 °C +85 °C	Lead soldering temperature(°C)	≤260
Operating temperature(°C)	-20 °C +70 °C	Soldering duration(s)	≤10
Operating temperature (°C)	-40 °C +85 °C (customize)		

Pin connections

Pin	Name	Level	Description
1	Vpd2		Photo diode #2 bias voltage, +3.3Volts nominal, +4.0Volts max.
2	VEER2		Ground of receiver #2 section
3	VEER2		Ground of receiver #2 section
4	NC		Do not connect
5	NC		Do not connect
6	VEER2		Ground of receiver #2 section
7	VCCR2		Power of receiver section #2, normally +3.3V
8	SD2	PECL/TTL	Optical alarm of receiver section #2, High level when normal, low level when no light
9	RD2-	PECL	Negative Data output of receiver section #2
10	RD2+	PECL	Positive Data output of receiver section #2
11	RD1+	PECL	Positive Data output of receiver section #1
12	RD1-	PECL	Negative Data output of receiver section #1
13	SD1	PECL/TTL	Optical alarm of receiver section #2, High level when normal, low level when no light
14	VCCR1		Power of receiver section #1, normally +3.3V

15	VEER1		Ground of receiver #1 section
16	NC		Do not connect
17	NC		Do not connect
18	VEER1		Ground of receiver #1 section
19	VEER1		Ground of receiver #1 section
20	Vpd1		Photo diode #1 bias voltage, +3.3Volts nominal, +4.0Volts max.

Package Dimensions (mm)



Ordering Information: MRF2RX-033S Dual Receive OC-3 long reach sensitivity SFF Module