

MF-622DS-R14-008/004/009**SONET/SDH TRANSCEIVER****DESCRIPTION**

MF-622DS-R14-008/004/009 are designed to provide receiver with high optical performance for ITU-T STM-4 application.

The requiring powers are dual powers (-5.2V/+5.0V).
The operating temperature is a range of 0 to +70°C.

FEATURES

- MF-622DS-R14-008
 - Operation in the 1.3 μ m wavelength window
 - Low cost Ge APD and wide dynamic range
 - Short haul S-4.1 standard
- MF-622DS-R14-004
 - Operation in the 1.3 μ m wavelength window
 - Low cost Ge APD and wide dynamic range
 - Long haul L-4.1 standard
 - High sensitivity
- MF-622DS-R14-009
 - Operation in the 1.55 μ m wavelength window
 - High sensitivity InGaAs APD
 - Long haul L-4.2 standard

APPLICATION

Trunk Line

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Conditions	Rating		Unit
			Min.	Max.	
Storage temperature	T _{stg}	-	-20	+70	°C
Operating temperature	T _a	-	0	+70	°C
Relative humidity	RH	Without condensation	10	90	%
Soldering	Temperature	-	-	260	°C
	Time	-	-	10	s
Power supply voltage	V _{EE}	-	-6	0	V
	V _{CC}	-	0	+6	V
Input signal voltage	V _I	-	0	V _{EE}	V

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SONET/SDH TRANSCEIVER

RECEIVER CHARACTERISTICS

Parameter	Model name	MF-622DS-R14-008	MF-622DS-R14-004	MF-622DS-R14-009	Unit
Bit rate		622.08 ± 20ppm			Mb/s
Line pattern		PN2 ²³ - 1, 50%, mark density			-
Code		NRZ			-
Wavelength window		1310		1550	nm
Optical fiber/connector		MMF GI 50/125/FC-PC		SMF 10/125/FC-PC	-
Sensitivity (1 × 10 ⁻¹⁰ BER average power)		- 28 ~ - 8	- 31 ~ - 8	- 28 ~ - 8	dBm
SAW filter Q		600-1200			-
Operating temperature		0 ~ + 70			°C
Electrical interface/tr, tr		800mV _{PP} , AC coupled			- / ps
Power supply		- 5.2 ± 5% + 5.0 ± 5% 700max 50max			V mA
Function		Loss of signal status			-