

1653nm XMD-packaged fiber coupled module

Features

- 6-pin XMD package
- Single mode fiber coupled
- Output power up to 15mW
- TEC and Thermistor included
- Eye-safe wavelength



Applications

- Detection of methane concentration in mine
- Methane concentration detection in urban integrated pipe gallery
- Methane concentration detection in buildings
- Household methane concentration detection

Opto-electrical	Symbol	Unit	Min	Typical	Max	Condition
Output Power	Po	mW	6			
Operating current	lop	m A			80	
Threshold current	Ith	m A		5	15	T =25℃
Operating voltage	Vop	V		1.2	1.9	lop
Slope efficiency	η	mW/mA	0.12	0.17		
Center wavelength	λς	nm	1651	1653	1654	lop
Spectral width (-20dB)	Δλ	nm			1	lop
Side mode suppression	SMSR	d B	30			lop
TEC operating voltage	V TEC	V			1.7	
TEC operating current	 TEC	Α			1.1	
Thermistor resistance	Rt	ΚΩ/β		10±1%/4050		T=25℃
Type of SM fiber			G657A1			
Fiber length		М	1			
OD of jacket		μm	900			
Fiber termination			FC/APC			
Fiber bending radius		mm	15			
Mechanical						
Package dimensions			9.5×6.4×5.35			
Pin soldering temp					260° C	<5s
Absolute limits						
Working temperature	Тор	° C	-10		75	
Storage temperature	Tstg	° C	-40		85	
Max optical power	Ро	m₩	10			
Max operating current	lf	mA	120			
Max reverse voltage	Vr	V	2			
Max TEC current	TEC	Α	1.1			

- Nominal wavelength 1653.7nm
- Laser performance is tested in CW mode at 25°C of housing temperature
- Thermistor resistance is defined at 25°C , the β value is valid in the temperature range of 0 ~ 50 °C