

TME-3F42-008

1310nm 2.5Gbps FP Laser Diode

FEATURES:

- Industry TO-56 package of ball lens cap
- 1310nm typical emission wavelength
- Data rate operation from DC to 2.5Gbps
- LD only pinout



ELECTRO-OPTICAL CHARACTERISTICS: (Tc=25°C, unless otherwise stated)

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Threshold Current	I_{th}		10	15	mA	CW
Operating Current	I_{op}			35	mA	CW, Po=5mW
Operating Voltage	V_{op}		1.1	1.5	V	CW, Po=5mW
Slope Efficiency	η	0.25	0.32		mW/mA	CW, Po=5mW
Peak Wavelength	λ_p	1290	1310	1330	nm	CW, Po=5mW
Rise / Fall Time (20%~80%)	T_r / T_f			150	ps	Po=5mW
Spectral Width (RMS)	$\Delta\lambda$			3	nm	CW, Po=5mW, (RMS, -20 dB)
Focal Length	FL	6.2	6.3	6.4	mm	CW, Po = 5mW, SMF

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	CONDITIONS
Storage Temperature	-40	85	°C	
Operating Temperature	-40	85	°C	
Lead Solder Temperature		260	°C	10 seconds
LD Reverse Voltage		2	V	
LD Optical Output Power		10	mW	

