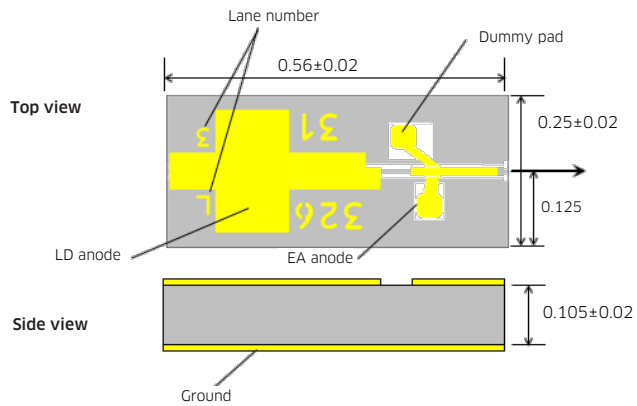


# 28 Gbaud EML for 100GE LWDM

OL3503M-2Ln

OL3503M-22Ln (Ln: L0, L1,L2 and L3), 1.3 $\mu$ m-band electro-absorption (EA) modulated DFB laser (EML) chip, is designed for 100GE (4ch x 25/28 Gbps) applications.



**Features:**

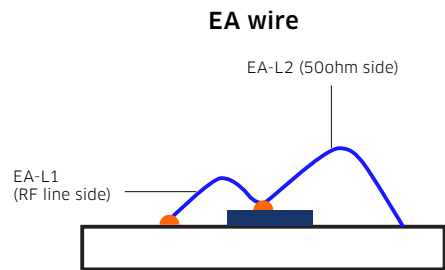
- Up to 28 Gbps SMF 10 km transmission
- Wavelength meets 100GBASE lane assignments
- High temperature operation (55 °C. (typ.))
- Low amplitude operation (1.3 Vpp (typ.))

**Applications:**

- 100GE (4ch x 25/28Gbps) data communication

Assembly information

Parameter	Reccomended condition
DB temperature	310 °C, <15 s
EA wire length (L1)	0.3 mm
EA wire length (L2)	0.7 mm



Burn in information

(6-1) Test conditions : Temp 100 °C, ILD 240 mA, 6 hrs  
(6-2) Criteria :

Changing in Threshold current :     -15% to +10%  
Changing in Output power :         -10% to +10%

Characteristics

Parameter	Test Conditions	Minimum	Typical	Maximum	Unit
Output power	If=90mA, CW	4	-	-	mW
Peak wavelength	If=90mA, CW	LWDM (Class A / Class B) *1)			nm
Averaged power *2)	28Gbps, NRZ	0	-	-	dBm
Extinction ratio *2)		6	-	-	dB
Mask margin *2)		15	-	-	%

\*1) Wavelength class

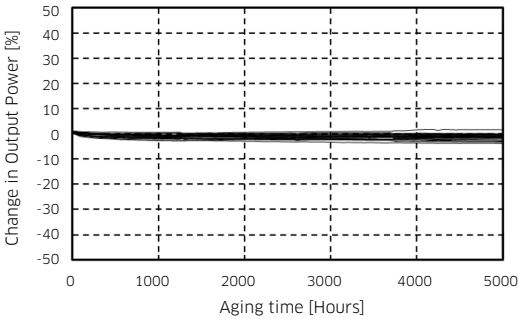


\*2) Expected characteristics with Lumentum RF submount, not guaranteed.

Reliability (Based on Guideline of Telcordia GR-468)


Test item	Results
HTOL (5000 hrs)	Pass
Die shear	Pass
Wire pull strength	Pass
Mechanical shock	Pass
Vibration	Pass
Temperature cycling	Pass

HTOL test result




RoHS status : Compliant

Safety Information




Peak output power 500 mW  
Wavelength 900~1700 nm  
Class 3B laser product



①



②



AVOID EXPOSURE  
Laser invisible radiation is  
emitted from the aperture



Complies with CFR1040.10 and IEC60825-1

Warning	<p>A laser beam is emitted from this laser diode during operation.</p> <p>The invisible or visible laser beam, directly or indirectly, may cause injury to the eye or loss of eyesight.</p>
Laser Beam	<p>Do not look directly into the laser beam.</p> <p>Avoid exposure to the laser beam, any reflected or collimated beam.</p>
Caution	<p>The product contains gallium arsenide, GaAs.</p> <p>GaAs vapor and powder are hazardous to human health if inhaled, ingested or swallowed.</p>
GaAs Product	<p>Do not destroy or burn the product.</p> <p>Do not crush or chemically dissolve the product.</p> <p>Do not put the product in the mouth.</p> <p>Observe related laws and company regulations when discarding this product.</p> <p>The product should be excluded from general industrial waste or household garbage.</p>



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