

1550nmTx/1310nm Rx BOSA

Features

LC-BOSA 20Km

1550nm DFB LD Tx

1310nm PIN-TIA 1.25G Rx

Applications

ONU for GE-PON or G-PON

FTTC/FTTH



Absolute maximum ratings

Parameter	Symbol	Value	Unit
Storage temperature	Tst	-40~+85	°C
Operating temperature	Top	-40~+85	°C
Reverse voltage	V _R	30	V
Forward current	I	100	mA
Soldering temperature/time	-	260/10	°C/ s

Optical & electrical characteristics(T=25°C)

Tx

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Center wavelength	λ_c	1530	1550	1570	nm	0~70°C
Threshold current	I _{th}	-	10	15	mA	0~70°C
Spectral width	$\Delta\lambda$	-	1	4	nm	0~70°C
Output power	P	0.35	-	0.8	mW	CW, I _{th} +20mA
Operating voltage	V _{op}	-	1.1	1.5	V	CW, I _{th} +20mA
Rise/ Fall time	T _r /T _f	-	0.3	0.7	nS	10%~90%, I _b =I _{th}
Monitor current	I _m	0.1	0.7	-	mA	CW, I _{th} +20mA

Rx

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
wavelength	λ	1290	1310	1330	nm	
Operate Voltage	V	3.0	3.3	3.6		
Band Width	BW	700	-	-	MHz	
Sensitivity	S	-	-	-27	dBm	BER=10 ⁻¹² @1.25G,
Cross Talk	X _{opt}			-40	dB	
Return Loss	RL	-	-	-12	dB	
Saturation power	P _{sat}	-3	0	-	dBm	BER=10 ⁻¹² @1.25G,

Dimensions Diagram

