

SUN-ON-300C RFoG Mini Optical Node

Features

- Bi-directional optical node by two fiber transmission.
- Burst mode
- Combines the superior proven technologies of both the
- RF amplifier and optical components.
- of -6~+2dBm.
- Automatic Optical Control is designed to reduce the return noise effectively.



Specifications

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Receiver						
λ	Optical Wavelength		1500	1550	1600	nm
Vopt.in	Monitor Voltage	$\lambda=1550$		1		V/mW
Pin	Optical Input Power	Continuous	0.25	1	2	mW
F	Frequency Range (optional)		54		1000	MHz
FL	Flatness of Frequency Response	f=54 to 1000MHz		± 1		dB
S22	Output Return Loss		16	18		dB
Lo	Reference Output Level			25		dBmV
	Optical Input Return Losses		45			dB
CTB	CTB	59 Pal-D channel loading,			-65	dB
CSO	CSO				-60	dB
f	Equivalent Noise Input	f=55MHz			7	pA/Hz
Return Transmitter						
λ	Optical Wavelength	1590/1610 are available	1290	1310	1330	nm
Wout	Optical Output Power		0.5	1	2	mW
Vopt.in	Monitor Voltage	$\lambda=1310$		1		V/mW
LRin	RF Input Level		5	20	35	dBmV
F	Frequency Range (optional)		5		42	MHz
FL	Flatness of Frequency Response	f=5 to 42MHz		± 1		dB
S11	Input Return Loss	f=5 to 42MHz	16	18		dB
	Optical Output Return Loss		45			dB
Burst Mode*						
RFON	RF Input Transmit OFF=>ON		9	10	11	dBmV
RFOFF	RF Input Transmit ON=>OFF		7	8	9	dBmV
POFF	OFF Output Power	Transmit OFF			0.001	mW
TON<>OFF	ON<->OFF Transition Time				0.0015	ms
General Paramters						
Itot	Total Current Consumption (DC)	V+=8V		350		mA
Tmb	Operating Mounting Base Temperature		-20		+55	°C

*Burst mode parameter can be adjustable according to customer's request.

Ordering Information

SUN Mini Optical Node Series		Forward Output Level		Return Input Level		Laser Type		Tx. Optical		Optical Connector		Transmitter wavelength		Sub Split		Power Adaptor	
SUN-ON-X00XX		XX		XX		X		X		XX		XXXX		XX		XX	
SUN-ON-100	Receiver only	77	77dBμV	80	80dBμV	F	FP	1	1mW	SA	SC/APC	1310	1310nm	34	30/47	00	None
		85	85dBμV	85	85dBμV	D	DFB	2	2mW	SU	SC/UPC	1470	1470nm	45	42/54	01	North America
SUN-ON-200	Dual fiber I/O	95	95dBμV	88	88dBμV			3	3mW	FA	FC/APC	1490	1490nm	57	55/70	02	Europe
										FU	FC/UPC	1510	1510nm	68	65/85	03	China
SUN-ON-300	Single fiber I/O											1530	1530nm	81	85/105		
												1550	1550nm				
SUN-ON-400	One fiber I/O, a 2nd fiber for PON option											1570	1570nm				
												1590	1590nm				
SUN-ON-200C	Dual fiber I/O, burst mode at the return path											1610	1610nm				
SUN-ON-300C	Single fiber I/O, burst at the return path																
SUN-ON-400C	One fiber I/O, a 2nd fiber for PON option, burst at the return path																
SUN-ON-200AC	Dual fiber I/O, burst mode at the return, AGC at the forward path																
SUN-ON-300AC	Single fiber I/O, burst at the return, AGC at the forward path																
SUN-ON-400AC	One fiber I/O, a 2nd fiber for PON option, burst at the return, AGC at the forward path																

Example:

Single fiber I/O, burst at the return, AGC at the forward path; forward output level: 77dBμV, return input level:88dBμV; DFB Laser 1mW; SC/APC connector; transmitter wavelength 1610nm, frequency division 5-42MHz,54-1000MHz; Power adaptor is North America.

The order model is: SUN-ON-300AC-7788-D-1-SA-1610-45-01