



Pin	Description
1	monitor current
5	+V _B
9	output
2.3.7.8	common

FEATURES >>

- Excellent linearity
- Extremely low noise
- Excellent flatness
- Excellent return loss properties
- GaAs MMIC
- High reliability

DESCRIPTION

Hybrid amplifier module operating over a frequency range of 40 to 1200 MHz at a voltage supply of +24V(DC)

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
f	Frequency range	-	40	-	1200	MHz
S ₂₂	Return losses	f=40 to 1200 MHz	-	-	-11	dB
ORL	Optical input return losses	λ=1310	45	-	-	dB
CNR	Noise carrier rating	P _{opt} = -1dBm	51	-	-	dB
I _{tot}	Total current consumption(DC)	V _B =24V	230	-	280	mA

HANDLING

Fiberglass optical coupling: maximum tensile strength=5N;minimum bending radius=35mm

LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	MIN.	MAX.	UNITS
P_{in}	Optical input power (continuous)	-	3	mW
ESD	ESD sensitivity(Human body model; $R=1.5K\Omega$; $C=100pF$)	500	-	V
T_{stg}	storage temperature	-40	+100	°C
T_{mb}	operating mounting base temperature	-30	+90	°C

CHARACTERISTICS

(Bandwidth 40 to 1200MHz; $T_{mb}=30^{\circ}C$, $V_B=24V$, $Z_S=Z_L=75\Omega$)

PART NUMBER			Ogi12002824			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	Response	V/W	850	-	-	$\lambda=1310nm$
SL	Slope cable equivalent	dB	0.5		1.5	$f=40$ to 1200 MHz
FL	flatness of frequency response	dB	-	-	± 0.75	$f=40$ to 1200 MHz
S_{22}	return loss	dB	-	-	-11	$f=40$ to 1200 MHz
	Optical input return losses	dB	45	-	-	$\lambda=1310$
CTB	composite triple beat	dB	-	-	-62	110 channels flat; $P_{opt} = -1dBm$; CTB measured at 547.25 MHz; CSO measured at 548.5 MHz;
CSO	composite second order distortion	dB	-	-	-63	
CNR	Noise carrier rating	dB	51	-	-	
V_o	output voltage	dBmV	-	33	-	
S_{λ}	Spectral sensitivity	A/W	0.85	-	-	$\lambda=1310 \pm 20nm$
		A/W	0.9	-	-	$\lambda=1550 \pm 20nm$
λ	Optical wavelength	nm	1290	-	1600	-
I_{tot}	total current consumption(DC)	mA	230	-	280	$V_B=+24V$

The module normally operates at $V_B=24V (\pm 0.5)$

MODULE DIMENSIONS

