



Pin	Description
1	monitor current
5	+V <sub>B</sub>
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 1000 MHz at a voltage supply of +24V(DC)

**QUICK REFERENCE DATA**

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
f	Frequency range	-	40	-	1000	MHz
S <sub>22</sub>	Return losses	f=40 to 1000 MHz	-	-	-11	dB
	Optical input return losses	-	45	-	-	dB
CNR	Noise carrier rating	-	51	-	-	dB
I <sub>tot</sub>	Total current consumption(DC)	V <sub>B</sub> =24V	260	-	300	mA

**HANDLING**

Fibreglass 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	+85	$^{\circ}$ C
$T_{mb}$	operating mounting base temperature	-20	+85	$^{\circ}$ C

## CHARACTERISTICS

(Bandwidth 40 to 1000MHz; $T_{mb}=30^{\circ}$ C, $V_B=24$ V, $Z_S=Z_L=75\Omega$ )

PART NUMBER			Ogi10002824			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	responsivity	V/W	850	-	-	$\lambda=1310$ nm
FL	flatness of frequency response	dB	-	-	$\pm 0.75$	f=40 to 1000 MHz
$S_{22}$	return loss	dB	-	-	-11	f=40 to 1000 MHz
	Optical input return losses	dB	45	-	-	-
CTB	composite triple beat	dB	-	-	-65	110 channels flat; $P_{opt}=-1$ dBm; CTB measured at 745.25 MHz; CSO measured at 746.5 MHz;
CSO	composite second order distortion	dB	-	-	-63	
CNR	Noise carrier rating	dB	51	-	-	
$V_o$	output voltage	dBmV	-	35	-	
$S_{\lambda}$	Spectral sensitivity	A/W	0.85	-	-	$\lambda=1310 \pm 20$ nm
		A/W	0.9	-	-	$\lambda=1550 \pm 20$ nm
$\lambda$	Optical wavelength	nm	1290	-	1600	-
$I_{tot}$	total current consumption(DC)	mA	260	-	300	$V_B=+24$ V

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

MODULE DIMENSIONS

