



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 870 MHz at a voltage supply of +12V(DC)

**QUICK REFERENCE DATA**

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
f	Frequency range		40	-	870	MHz
S <sub>22</sub>	Return losses	f=40 to 870 MHz	-	-	-14	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> =12V	240	-	270	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	°C
$T_{mb}$	operating mounting base temperature	-20	+85	°C

## CHARACTERISTICS

(Bandwidth 40 to 870MHz;  $T_{mb}=30^{\circ}C$ ,  $V_B=12V$ ,  $Z_S=Z_L=75\Omega$ )

PART NUMBER			Ogi8602512			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	responsivity	V/W	850	-	-	$\lambda=1310nm$
FL	flatness of frequency response	dB	-	-	$\pm 0.75$	$f=40$ to 870 MHz
$S_{22}$	return loss	dB	-	-	-14	$f=40$ to 870 MHz
	Optical input return losses	dB	45	-	-	-
CTB	composite triple beat	dB	-	-	-62	110 channels flat; $P_{opt}=-1dBm$ ; CTB measured at 745.25 MHz; CSO measured at 746.5 MHz;
CSO	composite second order distortion	dB	-	-	-62	
CNR	Noise carrier rating		51	-	-	
$V_o$	output voltage	dBmV	-	30	-	
$S_{\lambda}$	Spectral sensitivity	A/W	0.85	-	-	$\lambda=1310\pm 20nm$
		A/W	0.9	-	-	$\lambda=1550\pm 20nm$
$\lambda$	Optical wavelength	nm	1290	-	1600	-
$I_{tot}$	total current consumption(DC)	mA	240	-	270	$V_B=+12V$

The module normally operates at  $V_B=12V (\pm 0.5)$

**MODULE DIMENSIONS**

