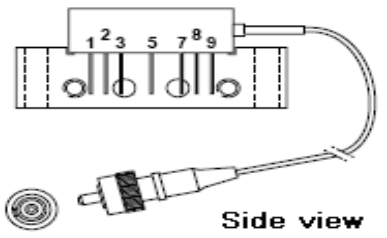
OUTLINE

PIN CONFIGURATION



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
·High reliability
·GaAs MMIC
·OP-AGC

DESCRIPTION

Hybrid amplifier module operating over a frequency range of 40 to 870 MHz at a voltage supply of +8V(DC)

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
f	Frequency range		40	-	870	MHz
S_{22}	Return losses	f=40 to 870 MHz	-	-	-12	dB
	Optical input return losses		45	-	-	dB
SL	slope cable equivalent	f=40 to 870 MHz	2	-	2.5	dB
CNR	Noise carraier rating		50	-	-	dB
I_{tot}	Total current consumption(DC)	V_B=8V	250	-	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=1.5KΩ;C=100pF)	500	-	V
T_{stg}	storage temperature	-40	+85	℃
T_{mb}	operating mounting base temperature	-20	+85	℃

CHARACTERISTICS

(Bandwidth 40 to 870MHz;T_{mb}=25℃,V_B=8V,Z_S=Z_L=75Ω)

PART NUMBER			Ogi8603008A			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	responsivity	V/W	850	-	-	λ=1310nm
FL	flatness of frequency response	dB	-	-	±0.5	f=40 to 870 MHz
SL	slope cable equivalent	dB	2	-	2.5	f=40 to 870 MHz
S_{22}	return loss	dB	-	-	-12	f=40 to 870 MHz
	Optical input return losses	dB	45	-	-	-
CTB	composite triple beat	dB	-	-	-65	110 channels flat; P_{opt}= -1dBm;
CSO	composite second order distortion	dB	-	-	-61	CTB measured at 547.25 MHz;
CNR	Noise carraier rating	-	-	51	-	CSO measured at 548.5 MHz;
V_o	output voltage	dBmV	-	30	-	P_{opt}= -7 ~ +1dBm
S_λ	Spectral sensitivity	A/W	0.85	-	-	λ=1310±20nm
		A/W	0.9	-	-	λ=1550±20nm
λ	Optical wavelengh	nm	1290	-	1600	-
I_{tot}	total current consumption(DC)	mA	250	-	270	V_B=+8V

The module normally operates at V_B=8V(±0.1)

MODULE DIMENSIONS