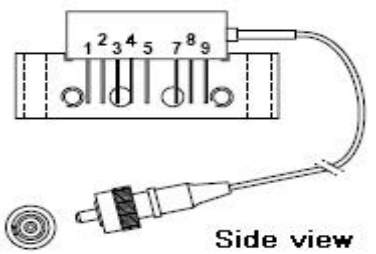
OUTLINE

PIN CONFIGURATION



Pin	Description
1	monitor current
4	NC
5	$+V_B$ of the amplifier
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 1000 MHz at a voltage(pin-5) supply of +5V(DC) .

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
f	Frequency range		40	-	1000	MHz
S_{22}	Return losses	f=40 to 1000 MHz	-	-	-12	dB
	Optical input return losses		45	-	-	dB
SL	slope cable equivalent	f=40 to 1000 MHz	2	-	3	dB
CNR	Noise carraier rating		50	-	-	dB
I	Total current consumption(DC)	V_B=5V	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 45 to1000MHz;T_{mb}=30℃; V_A=5~12V; V_B=8V; Z_S=Z_L=75Ω)

PART NUMBER			Ogi10003005A			
SYSMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	responsivity	V/W	850	-	-	λ=1310～1600nm
FL	flatness straight line	dB	-	-	±0.5	f=45 to 1000 MHz
SL	slope straight line	dB	2	-	3	f=45 to 1000 MHz
S_{22}	return loss	dB	-	-	-12	f=45 to 1000 MHz
	Optical input return losses	dB	45	-	-	-
CTB	composite triple beat	dB	-	-	-63	110 channels flat; P_{opt}= -1dBm;
CSO	composite second order distortion	dB	-	-	-60	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}= -8 ~ +2dBm
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	total current consumption(DC)	mA	250	-	270	V_B=+5V

MODULE DIMENSIONS