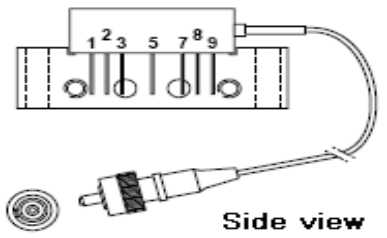
OUTLINE

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

DESCRIPTION

Hybrid amplifier module operating over a frequency range of 40 to 860 MHz at a voltage supply of +24V(DC)

QUICK REFERENCE DATE

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
f	Frequency range		40	-	860	MHz
S_{22}	Return losses	f=40 to 860 MHz	-	-	-11	dB
	Optical input return losses		45	-	-	dB
CNR	Noise carraier rating		51	-	-	dB
I_{tot}	Total current consumption(DC)	V_B=24V	180	-	210	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 860MHz;T_{mb}=30℃,V_B=24V,Z_S=Z_L=75Ω)

PART NUMBER			Oi8601824			
SYSMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	responsivity	V/W	850	-	-	λ=1300nm
FL	flatness of frequency response	dB	-	-	±0.75	f=40 to 860 MHz
SL	slope cable equivalent	dB	-1.0	-	1.0	f=40 to 860 MHz
S_{22}	return loss	dB	-	-	-11	f=40 to 860 MHz
	Optical input return losses	dB	45	-	-	-
CTB	composite triple beat	dB	-	-	-65	77 channels flat; P_{opt}= -1dBm; CTB measured at 547.25 MHz; CSO measured at 548.5 MHz;
CSO	composite second order distortion	dB	-	-	-60	
CNR	Noise carraier rating		51	-	-	
V_o	output voltage	dBmV	-	27	-	
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	180	-	210	V_B=+24V

The module normally operates at V_B=24V(±0.5),but the reliability can't get guarantee if the voltage beyond 27V.

MODULE DIMENSIONS