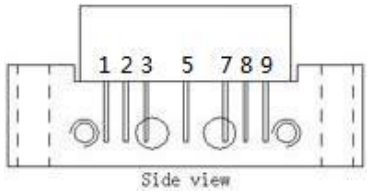
OUTLINE

PIN CONFIGURATION



Pin	Description
1	input
5	$+V_B$
9	output
2.3.7.8	common

FEATURES

- Excellent linearity
- Extremely low noise
- Excellent return loss properties
- High gain
- High reliability

DESCRIPTION

Hybrid amplifier module operating over a frequency range of 40 to 1000 MHz at a voltage supply of +24V(DC) ,employing GaAs MMIC.

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
G_p	power gain	f=50 MHz	22	23	23.5	dB
G_p	power gain	f=1000MHz	24	25	26	dB
I_{tot}	total current consumption(DC)	V_B=24V	230	-	320	mA

LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	MIN.	MAX.	UNITS
V_i	RF input voltage	-	55	dBmV
T_{stg}	storage temperature	-40	+100	℃
T_{mb}	operating mounting base temperature	-20	+90	℃

CHARACTERISTICS

(Bandwidth 40 to 1000MHz; T_{mb}=25℃, V_B=24V, Z_S=Z_L=75Ω)

PART NUMBER			Egi10002524P			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
G_P	power gain	dB	22	21	23.5	f =50MHz
SL	slope cable equivalent	dB	1	2	2.5	f =50 to 1000 MHz
FL	flatness of frequency response	dB	-	-	±0.5	f =50 to 1000 MHz
S_{11} & S_{22}	Input & output return loss	dB	-	-	-16	f =50 to 860 MHz
S_{11} & S_{22}	Input & output return loss	dB	-	-	-14	f =861 to 1000 MHz
CTB	composite triple beat	dB	-	-	-68	110 channel
CSO	composite second order distortion	dB	-	-	-68	V_O=42dBmV at 745.25MHz
X_{mod}	cross modulation	dB	-	-	-61	6dB tilted across the band
F	noise figure	dB	-	-	5.0	f=860 MHz
I_{tot}	total current consumption(DC)	mA	230	-	320	V_B=+24V

The module normally operates at V_B=24V(±0.5).

MODULE DIMENSIONS