



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 1003 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	32.0	34.0	34.5	dB
G _p	power gain	f=1003MHz	34.5	35	36	dB
I _{tot}	total current consumption(DC)	V _B =24V	350	-	400	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	°C
T _{mb}	operating mounting base temperature	-20	+90	°C

CHARACTERISTICS

(Bandwidth 40 to 1003MHz; $T_{mb}=25^{\circ}\text{C}$, $V_B=24\text{V}$, $Z_S=Z_L=75\Omega$)

PART NUMBER			Egi10003424D1			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
G _p	power gain	dB	32.0	34.0	34.5	f =50MHz
SL	slope cable equivalent	dB	1.0	2	2.5	f =50 to 1003 MHz
FL	flatness of frequency response	dB	-	-	±0.5	f =40 to 1003 MHz
S ₁₁ & S ₂₂	Input & output return loss	dB	-	-	-16	f =40 to 1003 MHz
CTB	composite triple beat	dB	-	-	-65	110 channel
CSO	composite second order distortion	dB	-	-	-65	V ₀ =48dBmV at 745.25MHz
X _{mod}	cross modulation	dB	-	-	-61	6dB tilted across the band
F	noise figure	dB	-	-	4.0	f=860 MHz
I _{tot}	total current consumption(DC)	mA	350	-	400	V _B =+24V

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

MODULE DIMENSIONS

