



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 reliability

DESCRIPTION

Hybrid amplifier module operating over a frequency range of 5 to 120 MHz at a voltage supply of +24V(DC)

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
G _p	power gain	f=10 MHz	30	-	31	dB
I _{tot}	total current consumption(DC)	V _B =24V	220	-	270	mA

LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	MIN.	MAX.	UNITS
V _i	RF input voltage (single tone)	-	55	dBmV
V _o	DC power supply over voltage (5 minutes)	-	27	V
T _{stg}	storage temperature	-40	+100	°C
T _{mb}	operating mounting base temperature	-20	+90	°C

CHARACTERISTICS

(Bandwidth 5 to 120MHz; $T_{mb}=30^{\circ}\text{C}$, $V_B=24\text{V}$, $Z_S=Z_L=75\Omega$)

PART NUMBER			Egi2003024R			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
G_P	power gain	dB	30	-	31	f=10MHz
SL	slope cable equivalent	dB	-0.2	-	0.5	f=5 to 120 MHz
FL	flatness of frequency response	dB	-	-	± 0.2	f=5 to 120 MHz
S_{11}	input return loss	dB	-	-	-18	f=5 to 120 MHz
S_{22}	output return loss	dB	-	-	-18	f=5 to 120 MHz
CTB	composite triple beat	dB	-	-	-60	17 channels ; $V_O=50\text{dBmV}$
CSO	composite second order distortion	dB	-	-	-62	CTB measured at 77.25 MHz
X_{mod}	cross modulation	dB	-	-	-62	CSO measured at 78.5 MHz;
V_o	output voltage	dBmV	65	-	-	$d_{im}=-60\text{dB}$
F	noise figure	dB	-	-	4	f=50 MHz
I_{tot}	total current consumption(DC)	mA	220	-	270	$V_B=+24\text{V}$

The module normally operates at $V_B=24\text{V} (\pm 0.5)$

MODULE DIMENSIONS

