



Pin	Description
1	input
5	+V <sub>B</sub>
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 300 MHz at a voltage supply of +24V(DC)

## QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
G <sub>p</sub>	power gain	f=10 MHz	35	-	36	dB
I <sub>tot</sub>	total current consumption(DC)	V <sub>B</sub> =24V	220	-	270	mA

## LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	MIN.	MAX.	UNITS
V <sub>i</sub>	RF input voltage	-	65	dBmV
T <sub>stg</sub>	storage temperature	-40	+100	°C
T <sub>mb</sub>	operating mounting base temperature	-20	+90	°C

**CHARACTERISTICS**

 (Bandwidth 5 to 300MHz;  $T_{mb}=30^{\circ}\text{C}$ ,  $V_B=24\text{V}$ ,  $Z_S=Z_L=75\Omega$ )

PART NUMBER			Egi3003524R			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
$G_P$	power gain	dB	35	-	36	f=10MHz
SL	slope cable equivalent	dB	-0.2	-	0.5	f=5 to 300 MHz
FL	flatness of frequency response	dB	-	-	$\pm 0.2$	f=5 to 300 MHz
$S_{11}$	input return loss	dB	-	-	-18	f=10 to 300 MHz
$S_{22}$	output return loss	dB	-	-	-18	f=10 to 300 MHz
CTB	composite triple beat	dB	-	-	-65	22 channels
CSO	composite second order distortion	dB	-	-	-63	$V_o=50\text{dBmV}$
$X_{mod}$	cross modulation	dB	-	-	-62	measured at 175.25MHz
$V_o$	output voltage	dBmV	65	-	-	$d_{im}=-60\text{dB}$
F	noise figure	dB	-	3	-	f=300 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**
