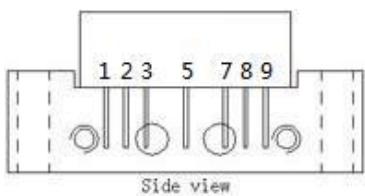




## OUTLINE

### PIN CONFIGURATION



### 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 gain
- High reliability

## ► DESCRIPTION

Hybrid amplifier module operating over a frequency range of 50 to 1000 MHz at a voltage supply of +24V(DC) ,employing GaAs MMIC.

## QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
G <sub>p</sub>	power gain	f=50 MHz	34	34.5	35.5	dB
I <sub>tot</sub>	total current consumption(DC)	V <sub>B</sub> =24V	250	-	330	mA

## LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	MIN.	MAX.	UNITS
V <sub>i</sub>	RF input voltage	-	55	dBmV
T <sub>stg</sub>	storage temperature	-40	+100	°C
T <sub>mb</sub>	operating mounting base temperature	-20	+90	°C

## CHARACTERISTICS

(Bandwidth 50 to 1000MHz;  $T_{mb}=25^{\circ}\text{C}$ ,  $V_B=24\text{V}$ ,  $Z_S=Z_L=75\Omega$ )

PART NUMBER			Egi10003424PS			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
$G_P$	power gain	dB	34	34.5	35.5	$f = 50\text{MHz}$
SL	slope cable equivalent	dB	0.5	1.5	3	$f = 50 \text{ to } 1000 \text{ MHz}$
FL	flatness of frequency response	dB	-	-	$\pm 0.5$	$f = 50 \text{ to } 1000 \text{ MHz}$
$S_{11} \& S_{22}$	Input & output return loss	dB	-	-	-16	$f = 50 \text{ to } 860 \text{ MHz}$
		dB	-	-	-14	$f = 861 \text{ to } 1000 \text{ MHz}$
CTB	composite triple beat	dB	-	-	-62	PAL 60 channel; $V_o=44\text{dBmV}$ ;
CSO	composite second order distortion	dB	-	-	-61	CTB measured at 543.25 MHz;
$X_{mod}$	cross modulation	dB	-	-	-60	CSO measured at 544.5 MHz;
F	noise figure	dB	-	-	4.0	$f=860 \text{ MHz}$
$I_{tot}$	total current consumption(DC)	mA	250	-	330	$V_B=+24\text{V}$

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

## MODULE DIMENSIONS

