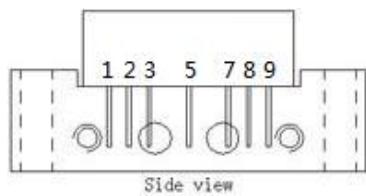


## ► OUTLINE

### PIN CONFIGURATION



## Pin Description

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 40 to 860 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	27	-	28	dB
I <sub>tot</sub>	total current consumption(DC)	V <sub>B</sub> =24V	260	-	300	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 40 to 860MHz;  $T_{mb}=25^{\circ}\text{C}$ ,  $V_B=24\text{V}$ ,  $Z_S=Z_L=75\Omega$ )

PART NUMBER			Egi8602724PS			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
$G_P$	power gain	dB	27	-	28	$f = 50\text{MHz}$
SL	slope cable equivalent	dB	1.0	-	2	$f = 50 \text{ to } 860 \text{ MHz}$
FL	flatness of frequency response	dB	-	-	$\pm 0.5$	$f = 40 \text{ to } 860 \text{ MHz}$
$S_{11} \& S_{22}$	Input&output return loss	dB	-	-	-16	$f = 40 \text{ to } 860 \text{ MHz}$
CTB	composite triple beat	dB	-	-	-61	77 channel
CSO	composite second order distortion	dB	-	-	-62	$V_O=44\text{dBmV}$
$X_{mod}$	cross modulation	dB	-	-	-60	measured at 547.25MHz;
F	noise figure	dB	-	-	4.0	$f=860 \text{ MHz}$
$I_{tot}$	total current consumption(DC)	mA	260	-	300	$V_B=+24\text{V}$

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

## MODULE DIMENSIONS

