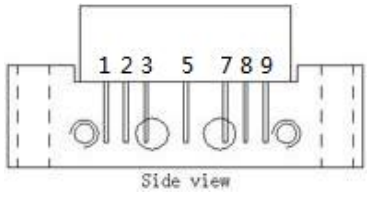
OUTLINE

PIN CONFIGURATION



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 40to860 MHz at a voltage supply of +24V(DC) ,employing GaAs MMIC.

QUICK REFERENCE DATE

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
G_p	power gain	f=50 MHz	20.3	-	22.2	dB
		f=860 MHz	20.3	-	-	dB
I_{tot}	total current consumption(DC)	V_B=24V	410	-	440	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	℃
T_{mb}	operating mounting base temperature	-20	+90	℃

CHARACTERISTICS

(Bandwidth 40 to 860MHz;T_{mb}=30℃,V_B=24V,Z_S=Z_L=75Ω)

PART NUMBER			Egi8602224DH			
SYSMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
G_P	power gain	dB	20.3	-	22.2	f =50MHz
		dB	20.3	21	22.2	f =860MHz
SL	slope cable equivalent	dB	0.0	-	1.0	f =40 to 860 MHz
FL	flatness of frequency response	dB	-	-	±0.5	f =40 to 860 MHz
S_{11}	input return loss	dB	-	-	-16	f =40 to 860 MHz
S_{22}	output return loss	dB	-	-	-16	f =40 to 860 MHz
CTB	composite triple beat	dB	-	-	-69	77 channels flat; V_O=48dBmV;
CSO	composite second order distortion	dB	-	-	-67	CTB measured at 547.25 MHz;
X_{mod}	cross modulation	dB	-	-	-63	CSO measured at 548.5 MHz;
V_o	output voltage	dBmV	68	-	-	d_{im}=-60dB
F	noise figure	dB	-	-	4	f=860 MHz
I_{tot}	total current consumption(DC)	mA	410	-	440	V_B=+24V

(Bandwidth 40 to 860MHz;T_{mb}=30℃,V_B=24V,Z_S=Z_L=75Ω)

PART NUMBER			Egi8602224DH			
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S_{11}	input return loss	dB	-	-	-16	f =40 to 860 MHz
S_{22}	output return loss	dB	-	-	-16	f =40 to 860 MHz
CTB	composite triple beat	dB	-	-	-67	110 channels flat; V_O=48dBmV;
CSO	composite second order distortion	dB	-	-	-66	CTB measured at 745.25 MHz;
X_{mod}	cross modulation	dB	-	-	-61	CSO measured at 746.5 MHz;
V_o	output voltage	dBmV	67	-	-	d_{im}=-60dB
F	noise figure	dB	-	-	4	f=860 MHz
I_{tot}	total current consumption(DC)	mA	410	-	440	V_B=+24V

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

MODULE DIMENSIONS