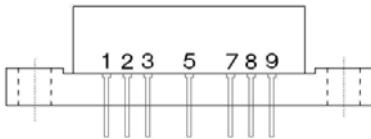


OUTLINE
PIN CONFIGURATION

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 50 to 1000 MHz at a voltage supply of +12V(DC) ,employing GaAs MMIC.

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
G _p	power gain	f=50 MHz	25	-	26	dB
		f=860 MHz	26	-	27	
I _{tot}	total current consumption(DC)	V _B =12V	410	-	450	mA

LIMITING VALUES

In accordance with the Absolute Maximum Rating System

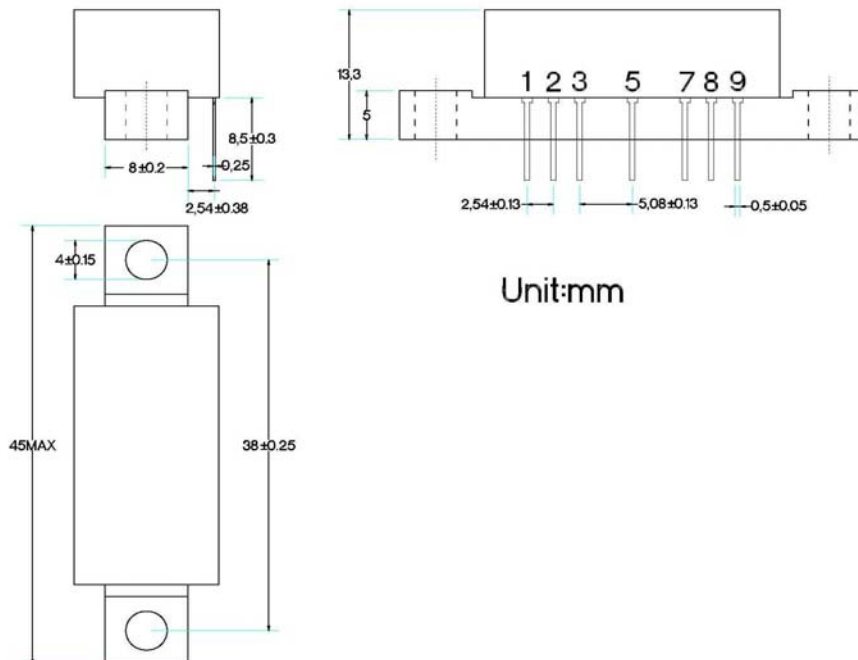
SYMBOL	PARAMETER	MIN.	MAX.	UNITS
V _i	RF input voltage	-	55	dBmV
T _{stg}	storage temperature	-40	+100	°C
T _{mb}	operating mounting base temperature	-20	+90	°C

CHARACTERISTICS

 (Bandwidth 50 to 1000MHz; $T_{mb}=30^{\circ}C$, $V_B=12V$, $Z_S=Z_L=75\Omega$)

PART NUMBER			Egi10002512DS			
SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
G _P	power gain	dB	25	-	26	f=50MHz
			26	-	27	f=1000MHz
SL	slope cable equivalent	dB	0.5	-	1	f=50 to 1000 MHz
FL	flatness of frequency response	dB	-	-	±0.5	f=50 to 1000 MHz
S ₁₁	input return loss	dB	-	-	-16	f=50 to 1000 MHz
S ₂₂	output return loss	dB	-	-	-16	f=50 to 1000 MHz
CTB	composite triple beat	dB	-	-	-62	110 channel
CSO	composite second order distortion	dB	-	-	-65	V _o =46dBmV at 745.25MHz
X _{mod}	cross modulation	dB	-	-	-60	6dB tilted across the band
V _o	output voltage	dBmV	63	-	-	d _{im} =-60dB
F	noise figure	dB	-	-	4	f=860 MHz
I _{tot}	total current consumption(DC)	mA	410	-	450	V _B =+12V

 The module normally operates at $V_B=12V (\pm 0.5)$.

MODULE DIMENSIONS


Unit:mm