SANLAND

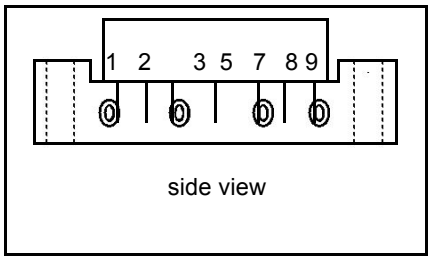
GaAs/GaN Push-Pull Module SMG8346/CATV

FEATURES

- GaAs active devices
- Power gain @34dB
- Low distortion
- Excellent linear gain
- Low noise figure
- High reliability
- Low cost

OUTLINE

PIN CONFIGURATION



Pin	Description
1	Input
5	$+V_B$
9	Output
2、3、7、8	GND

DESCRIPTION

The SMG8346 is a GaAs hybrid push-pull amplifier module. The part employs GaAs dies and is operated from 50MHz to 870MHz with supply voltage +6v(DC)

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNITS
Gp	Power Gain	f=50 MHz	33.5	35	dB
Itot	Total current consumption(DC)	VB=6V	340	420	mA

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LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	MIN.	MAX.	UNITS
Vi	RF input voltage	-	50	dBmV
Tstg	Storage temperature	-40	+100	¤
Tmb	Operating mounting base temperature	-20	+90	¤

CHARACTERISTICS

(Bandwidth 50 to 870MHZ; Tmb＝25¤, VB＝6V, ZS＝ZL＝75Ω)

SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
Gp	Power Gain	dB	33.5	-	35	f=50MHZ
Gp	Power Gain	dB	-	35	-	f=860MHZ
SL	Slope cable equivalent	dB	1.0	-	2.5	f=50 to 870 MHZ
FL	Flatness of frequency response	dB	-	-	±0.5	f=50 to 870 MHZ
S11	Input Return Loss	dB	-	-	-16	f=50 to 870 MHZ
S22	Output Return Loss	dB	-	-	-16	f=50 to 870 MHZ
CTB	Composite Triple Beat	dB	-	-	-62	PAL60channelsflat; Vo=44dBmV;
CSO	Composite Second Order distortion	dB	-	-	-63	CTB measured at 543.25 MHz;
Xmod	Cross Modulation	dB	-	-	-55	CSO measured at 544.5 MHz;
Vo	Output Voltage	dBmV	60	-	-	dim=-60dB
F	Noise Figure	dB	-	-4.0	-	f=860 MHZ
Itot	Total Current Consumption	mA	340	420		VB=+6V

The module normally operates at V_B=6V(±0.5),

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MODULE DIMENSIONS