

SANLAND

Reverse Amplifier Module

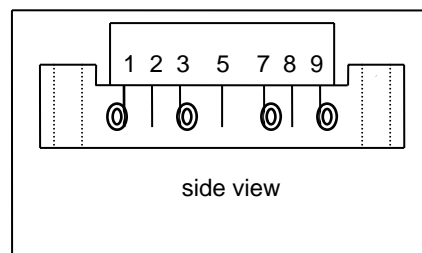
SMR2242N

FEATURES

- Superior Return Loss Performance
- Extremely Low Distortion
- Excellent Linearity
- Low Noise
- Optimal Reliability
- 24dB Min. Gain at 200MHz

OUTLINE

PIN CONFIGURATION



DESCRIPTION

The SMR2242N is a Reverse amplifier module.

The part employs Si dies and is operated from 5MHz to 200MHz with supply voltage +24V(DC)

Pin	Description
1	Input
5	+V _B
9	Output
2、3、7、8	GND

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNITS
G _p	Power Gain	f=10 MHz	24	25	dB
		f=200 MHz	24	-	dB
I _{tot}	Total current consumption(DC)	V _B =24V	180	210	mA

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SANLAND ELECTRONIC

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LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	MIN.	MAX.	UNITS
V_i	RF input voltage	-	50	dBmV
T_{stg}	Storage temperature	-40	+100	°C
T_{mb}	Operating mounting base temperature	-20	+90	°C

CHARACTERISTICS

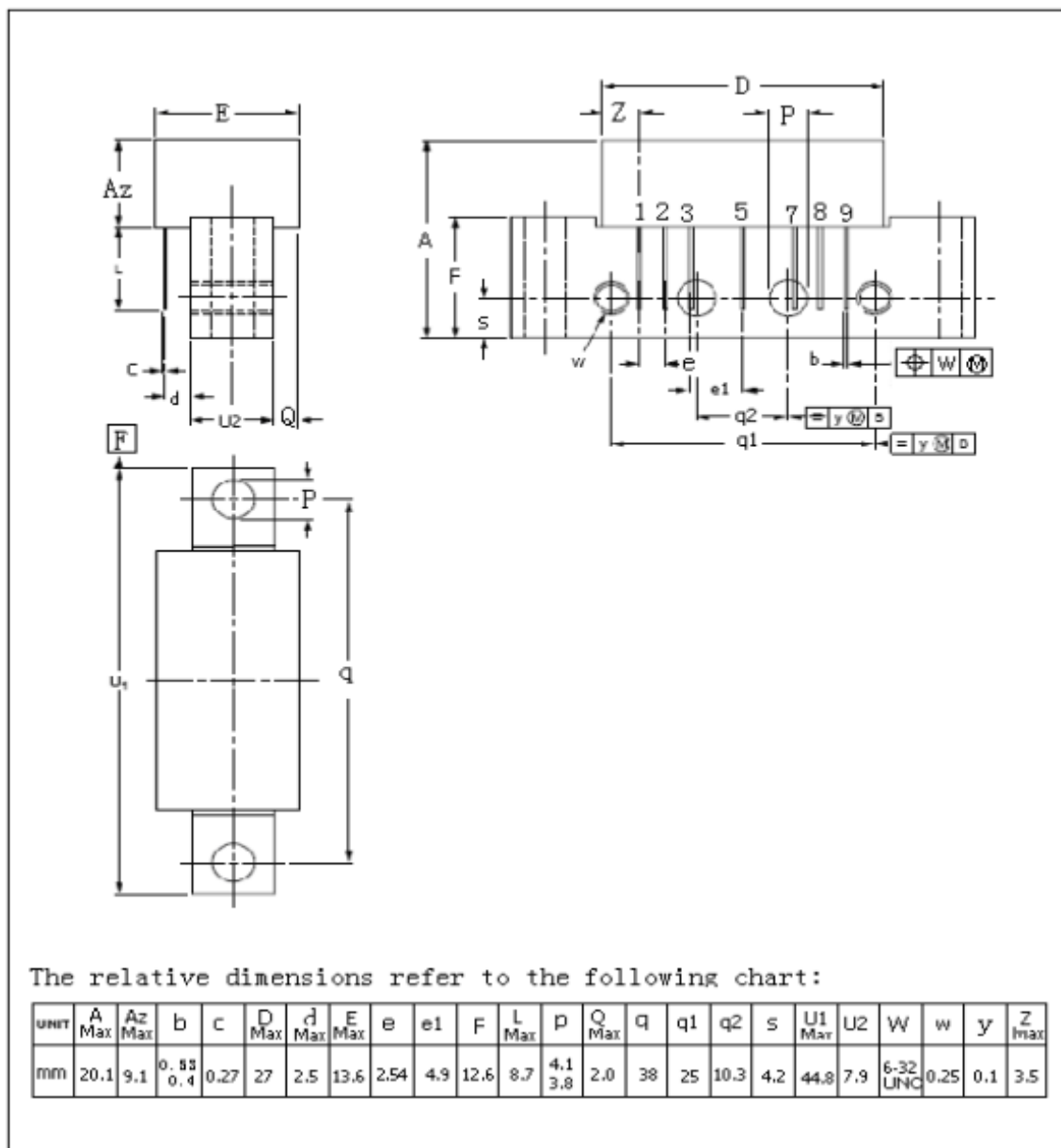
(Bandwidth 5 to 200MHz; $T_{mb}=25^{\circ}\text{C}$, $V_B=24\text{V}$, $Z_S=Z_L=75\ \Omega$)

SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
G_p	Power Gain	dB	24	-	25	f=10MHz
		dB	24	-	-	f=200MHz
SL	Slope cable equivalent	dB	-0.2	-	0.5	f=5 to 200 MHz
FL	Flatness of frequency response	dB	-	-	± 0.2	f=5 to 200 MHz
S_{11}	Input Return Loss	dB	-	-	-18	f=5 to 200 MHz
S_{22}	Output Return Loss	dB	-	-	-18	f=5 to 200 MHz
CTB	Composite Triple Beat	dB	-	-	-61	17channels flat; $V_o=50\text{dBmV}$;
CSO	Composite Second Order Distortion	dB	-	-	-61	CTB measured at 77.25 MHz;
X_{mod}	Cross Modulation	dB	-	-	-59	CSO measured at 78.5 MHz;
V_o	Output Voltage	dBmV	64	-	-	$d_{im}=-60\text{dB}$
F	Noise Figure	dB	-	-	5.5	f=200 MHz
I_{tot}	Total Current Consumption	mA	180	-	210	$V_B=+24\text{V}$

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

MODULE DIMENSIONS

MODULE CONFIGURATION



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