

MSAT-N25

NIP Diode Attenuator Shunt Element



(2012)
Plastic Molded DFN

Description

A broadband, High Linearity medium power shunt NIP Attenuator element 1.9 X 1.1 mm DFN package. This device is designed for wireless Telecommunication infrastructure and test instrument applications. It is also suited for other applications in 0.1 ~ 10 GHz range.

Features

- Low Distortion Harmonics at 85 dBc Typical
- Broadband performance, beyond 10 GHz
- Low Insertion loss & high attenuation range, 27 dB

Electrical Specifications, $T_c = +25\text{ }^\circ\text{C}$

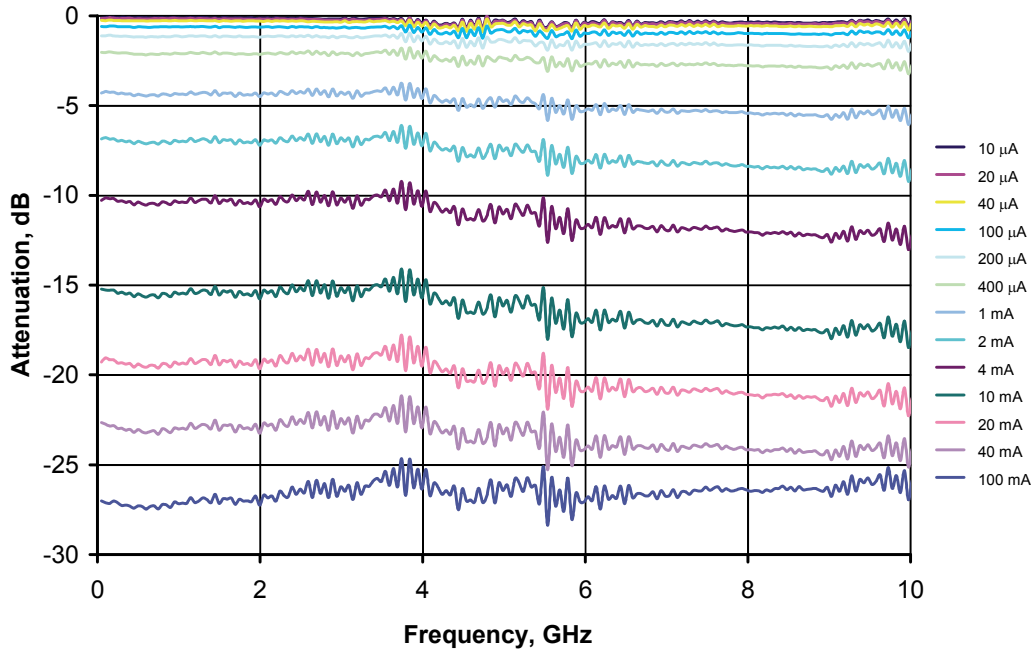
SYMBOL	TEST CONDITIONS			MIN	TYPICAL	MAX	UNITS
V_{BR}	$I_R = 10\ \mu\text{A}$			200	–	–	V
L_t	IF = 10 mA	IR = 6 mA	10% / 90%	2000	3000	5000	ns
Rs min	I = -100 mA		F = 500 MHz	–	1.5	2.5	
Rs High	I = -10 μA		F = 500 MHz	2000	3000	4000	
Rs Low	I = 1 mA		F = 500 MHz	30	40	50	

Absolute Maximum Ratings

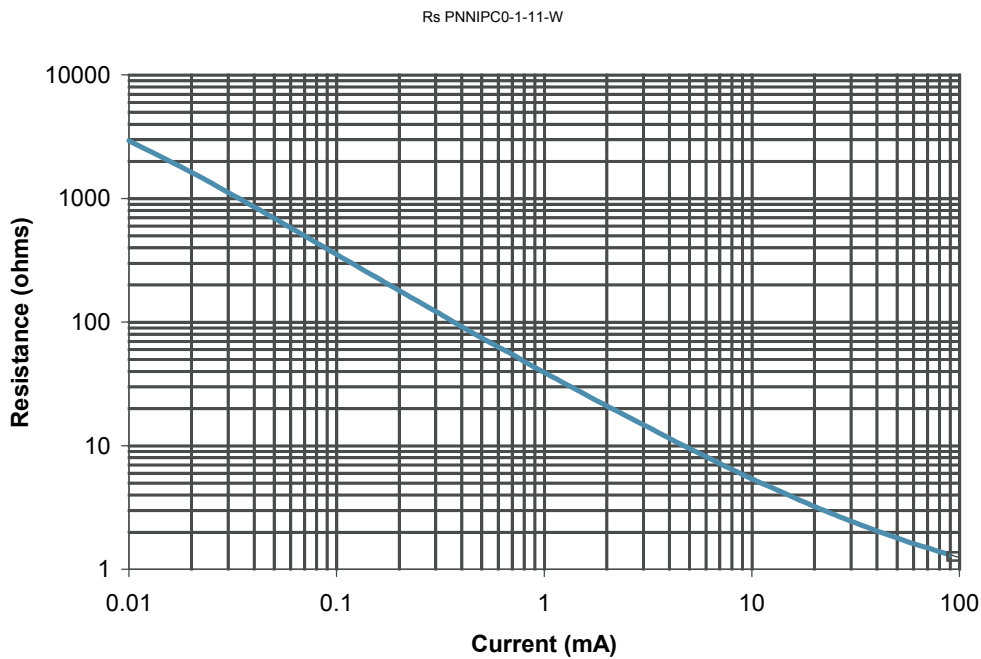
RATING	LIMITS	UNITS
V_R	200	V
I_F	200	mA
θ_{JC}	20	$^\circ\text{C/W}$
P_{dis}	2 (CW)	Watts
T_J	+175	$^\circ\text{C}$
T_{STG}	-65 to +125	$^\circ\text{C}$
T_{SOLDER}	+260 $^\circ\text{C}$ per JEDEC J-STD-20C	



RF Performance Attenuation vs Current



RF Performance Isolation



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