MSAT-P25

PIN Diode Attenuator Shunt Element







(2012) Plastic Molded DFN

Description

A broadband, High Linearity medium power shunt PIN 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 \sim 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, $T_C = +25 \, ^{\circ}\text{C}$

SYMBOL	TEST CONDITIONS		MIN	TYPICAL	MAX	UNITS
$V_{_{\mathrm{BR}}}$	$I_R = 10 \mu A$		200	_	_	V
L _t	IF = 10 mA IR = 6 m	A 10% / 90%	2000	3000	5000	ns
Rs min	I = -100 mA	F= 500 MHz	_	1.5	2.5	
Rs High	Ι = -10 μΑ	F= 500 MHz	1200	2200	3000	
Rs Low	I = -50 mA	F= 500 MHz	20	30	40	
K2 LOW	1 = -30 IIIA	F=<10.0 GHz	28	35	_	dB

Absolute Maximum Ratings

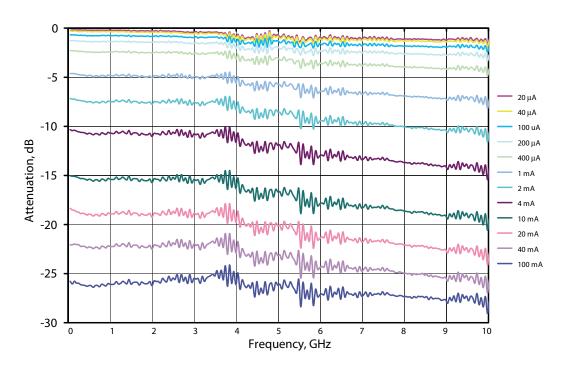
RATING	LIMITS	UNITS
V _R	200	V
I _F	200	mA
θ^{1C}	20	°C/W
T,	+175	°C
T _{STG}	-65 to +125	°C
T _{SOLDER}	+260 °C per JEDEC J-STD-20C	



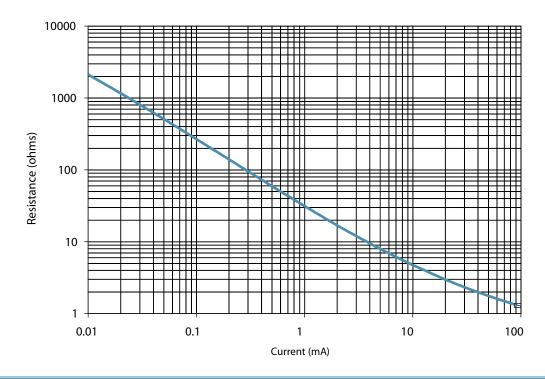
Revision Date: 11/4/2009



RF Performance Attenuation vs Current



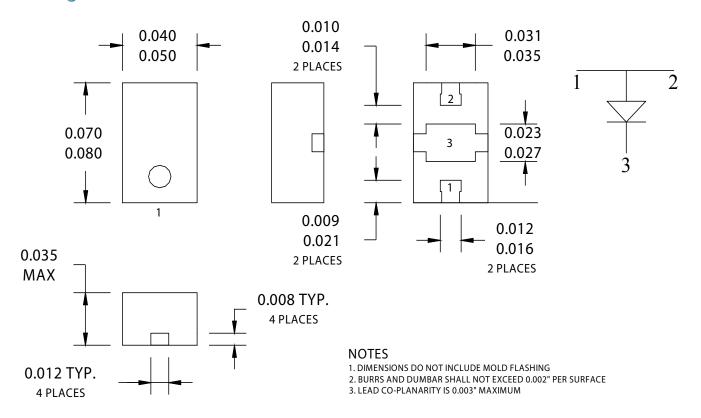
RF Performance Isolation



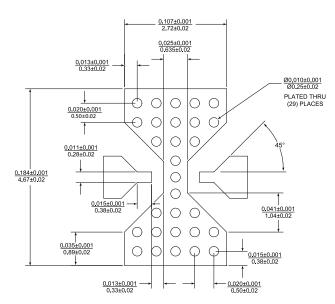
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Package Outline (2012) and Electrical Schematic



PCB Layout







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ISO 9001:2008



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