

# MMPN Series PIN Diodes



## Description

The Aeroflex / Metelics MMPN series are distributed PIN diodes that are integrated into a 50 Ω microstrip transmission line. They are designed to be operated as a shunt, reflective attenuators.

## Features

- High isolation
- Broadband performance to 50 GHz

## Absolute Maximum Ratings

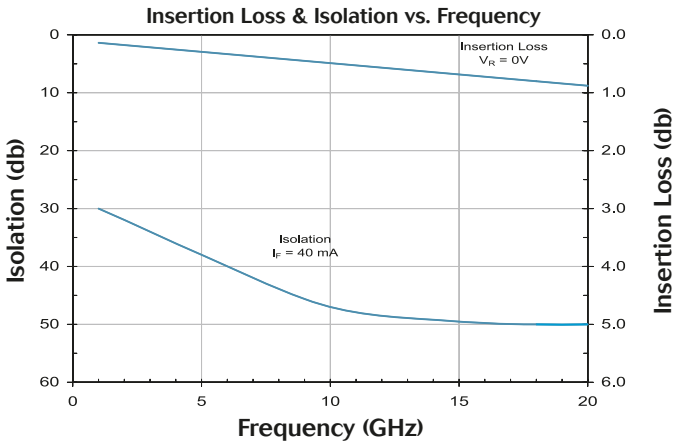
Parameters	Rating
Reverse Voltage	200 Volts
Forward Current	150 mA
Thermal Resistance, Junction to Case	60 °C/W
Junction Temperature	-65 °C to +175 °C
Storage Temperature	-65 °C to +200 °C
Mounting / Bonding Temperature	+ 320 °C for 10 seconds

## RF Specifications, $T_A = +25\text{ °C}$

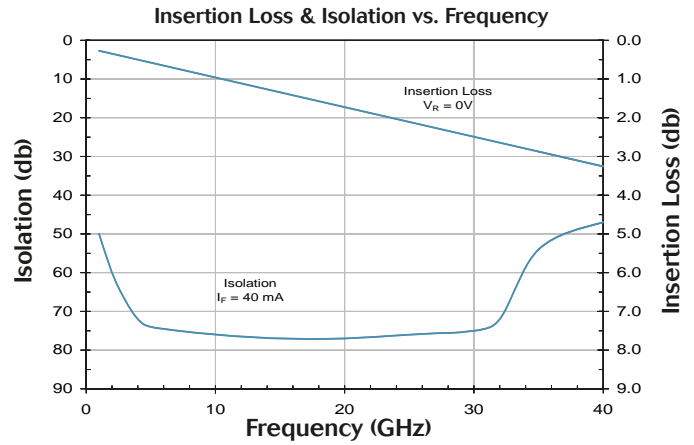
Model	$I_R$ MAX nA	$V_{BR}$ MIN V	Insertion Loss MAX dB	Return Loss MIN dB	Isolation MIN dB	Outline
MMPN080150	100	200	3.0	12	50	C51
MMPN080045	100	200	1.0	12	30	C50
Test Conditions	$V_R = 30\text{ V}$	$I_R = 10\text{ }\mu\text{A}$	$V_R = 0\text{ V}$ F = 2 - 35 GHz F = 2 - 20 GHz		$I_F = 40\text{ mA}$ F = 2 - 35 GHz F = 2 - 20 GHz	



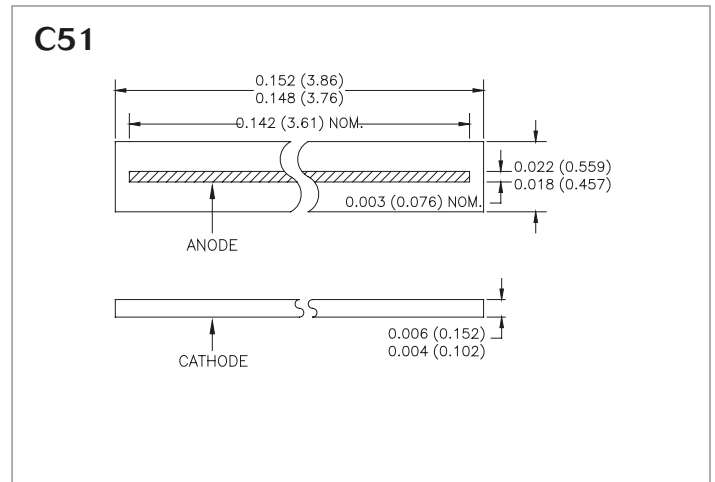
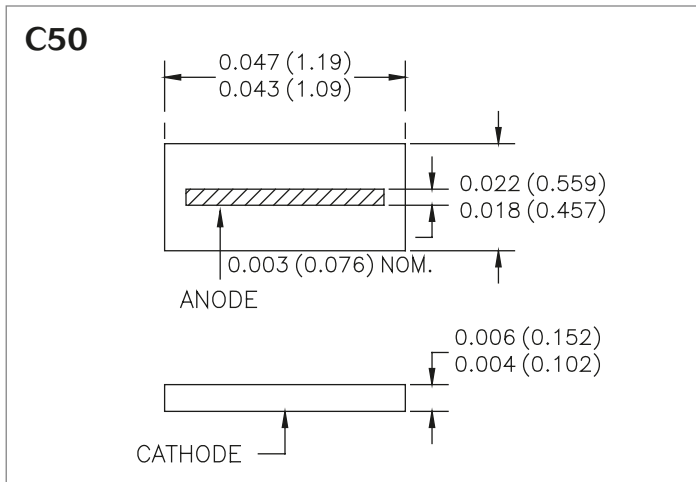
## MMPN080045



## MMPN080150



## Outline Drawings



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