

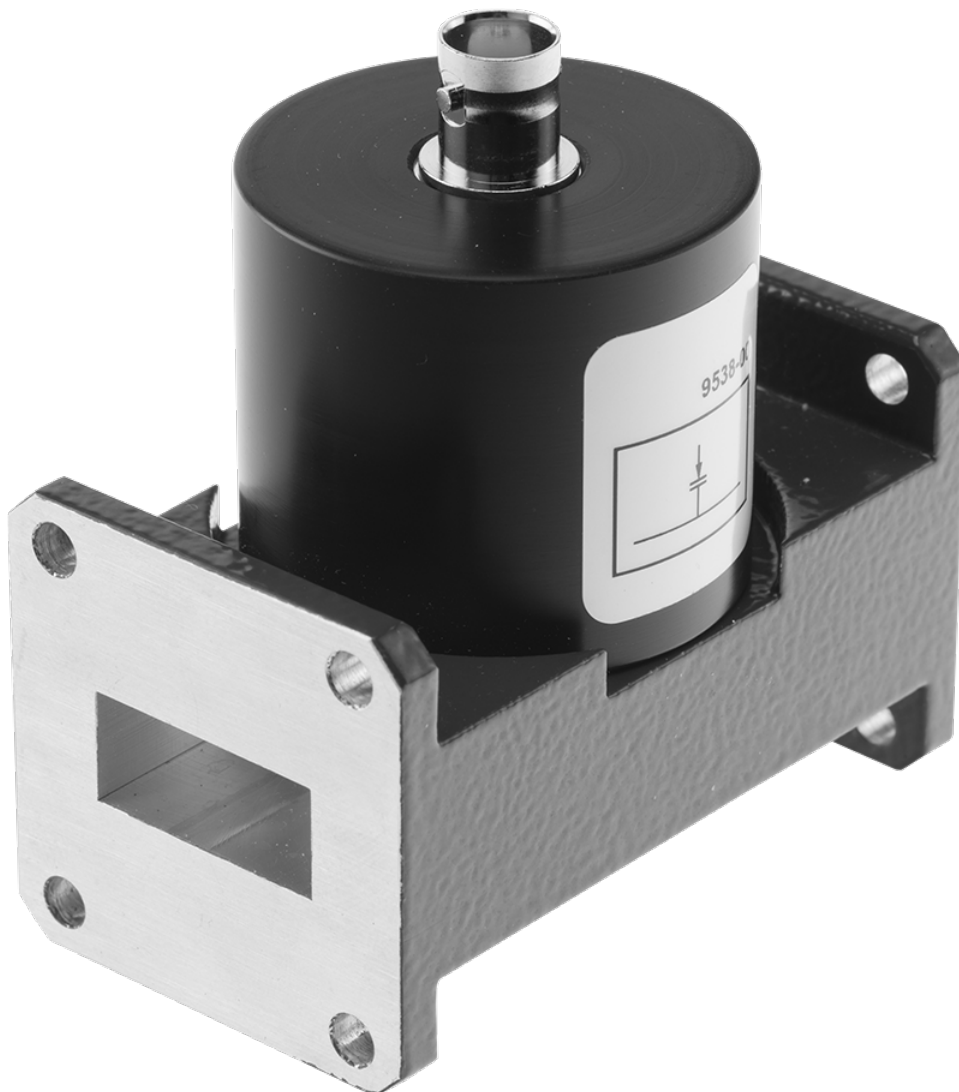
# PIN Diode

581851 (9538-00)

**FESTO**

LabVolt Series

Datasheet



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## General Description

The PIN Diode is a semiconductor device that acts like a variable resistor at microwave frequencies. The resistance of the diode is controlled by varying the dc current used to forward bias the diode.

PIN diodes are used in numerous microwave and wireless applications, including those listed below.

- Microwave switching.
- Variable attenuators. PIN diode attenuators can be designed as matched or reflective.
- Amplitude modulation and leveling of microwave signals.
- Microwave phase shifters.

## Specifications

Parameter	Value
<b>PIN Diode</b>	
Type	GaAs
Maximum Attenuation	At approximately 10.525 GHz
Internal Resistor	A 620 $\Omega$ resistor is internally connected between the BNC input of the PIN Diode and the diode itself.
Control Signals	The bias and modulation signals used to control the diode are provided by the Data Acquisition Interface.

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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