

MA4L022-120

PIN Limiter Diode

MACOM's manufactures a series of silicon PIN limiter diodes with small and medium I-region lengths which are specifically designed for high signal applications. The devices are designed to provide low insertion loss, at zero bias, as well as low flat leakage power with fast signal response/recovery times. Parts are available as discrete die or assembled into a variety of surface mount or ceramic pill packages. See the Available Case Style table on page 6 for the specific ceramic package styles and their availability for individual part numbers. The MA4L and MADL-0110 Series of PIN limiter diodes are designed for use in passive limiter control circuits to protect sensitive receiver components such as low noise amplifiers (LNA), detectors, and mixers covering the 10 MHz to 18 GHz frequency range.

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PRODUCT INQUIRY

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Product Specifications

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Product Specifications

Part Number	MA4L022-120
Description	PIN Limiter Diode
Breakdown Voltage(V)	20
Max CW Power (dBm)	34.8
Max Peak Power(dBm)	49.5
Input P1dB(dBm)	7
Junction Capacitance(pF)	0.32
Thermal Resistance	175.0
Lifetime(nS)	10
Resistance	2.00
Package	ODS-120
Package Category	Ceramic Coaxial Mount
ROHS	Yes

Features

- Low Insertion Loss and Noise Figure
- RoHS Compliant
- Proven Reliable, Silicon Nitride Passivation
- Low Flat Leakage Power
- Various P1dB Compression Powers
- High Peak and Average Operating Power

Technical Resources

Datasheet

 MA4L_MADL_MADP Series.pdf

Application Notes

-  S-Parameter S2P File Format Guide
-  Tape and Reel Packaging for Surface Mount Components
-  Design with PIN Diodes
-  Using the DR65-0109 (DR65-0003 replacement part) to Drive SPDT PIN Switches

Outline Drawings

-  OD-S-30.pdf
-  OD-S-1056.pdf
-  OD-S-186.pdf
-  OD-S-137.pdf
-  OD-S-134.pdf
-  OD-S-120.pdf
-  OD-S-32.pdf

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MA4L022-120

Diode,Pin,Ceramic_Pkg,Si

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