


Dual Pair Anti-Parallel Non-Magnetic PIN Diode

Manufacturer:	MACOM Technology Solutions
Package/Case:	nul
Product Type:	Thyristors
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The MA44781 device acts as a passive switch using silicon PIN diodes in a surface mount package. There are two sets of two PIN diode pairs constructed in opposing configurations. The package is sealed with a non-conductive epoxy resin and is suitable for surface mount applications. The MA44781 device is well suited for MRI passive switching applications. The PIN diodes become a high Q, R-C network under small signal and behave as an effective passive rectifier or short circuit under high RF signal to tune and de-tune the resonant MRI tank circuit. The anti-parallel doublet arrangement provides for more efficient RF power handling.

Key Features

- Designed for MRI Applications
- RoHS* Compliant
- 260°C Reflow Compatible
- SPC Process for Superior Parametric Repeatability
- Anti-Parallel Self Bias Arrangement
- Non-Magnetic Surface Mount Package
- ISM

Application

- Resistance: 0.8 Ohm
- Total Capacitance: 1.5 pF
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- CW Power Dissipation: 1.7 W
- Min Frequency: 10 MHz
- Breakdown Voltage, Minimum: 60 V
- Lifetime: 200 nS
- Max Frequency: 1,000 MHz

Recommended For You

MA4E1310

MACOM Technology Solutions
nul

MADL-011023-14150T

MACOM Technology Solutions
IC

MA4ST1231-1141T

MACOM Technology Solutions
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SOD-523

MA4P7436-1141T

MACOM Technology Solutions
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MA4PH235-1072T

MACOM Technology Solutions
SMD

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MA4P604-131

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MA4P7446F-1091T

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