



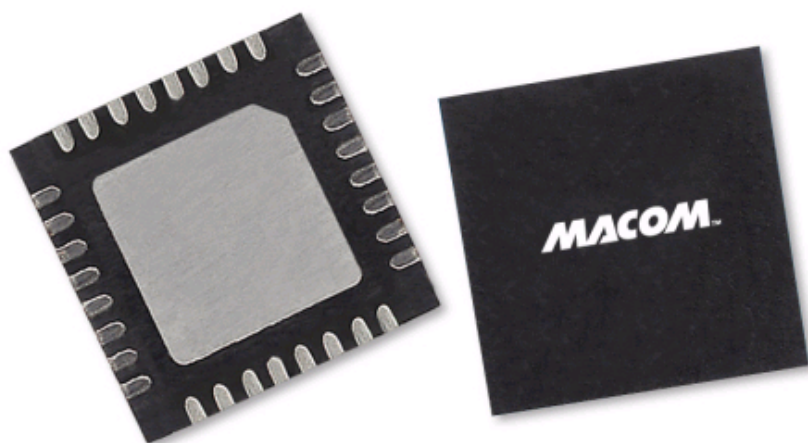
Partners in RF & Microwave

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MACOM Announces Highest Power Handling and Fastest Recovery Time SPDT Switch-Limiter

Reliable surface mount device is ideal for high power S-Band switch applications and enables repeatable high volume manufacturing

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high performance RF, microwave, and millimeter wave products, today announced a new SPDT Switch-Limiter that is ideally suited for S-Band military and commercial radar systems.



Operating over the 2.7 - 3.5 GHz bandwidth, the device handles 125W of CW power at 85°C while providing ultra fast recovery time of less than 100 nanoseconds.
(Photo: Business Wire)

limiter solution.

"The combination of highest power handling, lowest flat leakage and ultra fast recovery time make the MASL-011023 switch-limiter a unique and attractive solution for receiver protection in radar applications", said Paul Beasley, Product Manager. "Furthermore, as a result of the high volume and automated package assembly, customers will benefit from consistent performance, tight manufacturing tolerances and superior reliability for critical radar requirements."

The table below outlines typical performance:

Parameter	Units	MASL-011023
Frequency	GHz	2.7-3.5
Power Handling T _x Mode	W	125, CW
Power Handling R _x Mode	W	2.0, CW
Insertion Loss R _x Mode	dB	0.85
Insertion Loss T _x Mode	dB	0.25
Return Loss (R _x and T _x Mode)	dB	14
Isolation R _x Mode	dB	30
Isolation T _x Mode	dB	17

The [MASL-011023](#) is an innovative switch-limiter solution for customers who require the industry's fastest recovery time and highest power handling for S-Band receive protection applications. Operating over the 2.7 - 3.5 GHz bandwidth, the device handles 125W of CW power at 85°C while providing ultra fast recovery time of less than 100 nanoseconds. The switch is offered in a JEDEC standard footprint surface mount 7mm x 7mm QFN package that enables repeatable, high volume manufacturing. The MASL-011023 delivers low insertion loss, high isolation and the lowest available flat leakage of 10 dBm in Rx mode and 7 dBm in Tx mode.

This SP2T switch-limiter is designed to minimize insertion loss and handle +51 dBm CW power through the transmit path. This exceptional device also incorporates a fully integrated RF & DC bias network which provides the customer with a complete switch-

Flat Leakage R _x Mode	dBm	10
Flat Leakage T _x Mode	dBm	7
Limiters Recovery Time to Final Insertion Loss	ns	< 100

Production quantities and samples of [MASL-011023](#) are available from stock. Final datasheets and additional product information can be obtained from the MACOM website at: www.macomtech.com

ABOUT M/A-COM TECHNOLOGY SOLUTIONS INC.

M/A-COM Technology Solutions (www.macomtech.com) is a leading supplier of high performance RF, microwave, and millimeter wave products that enable next-generation Internet and modern battlefield applications. Recognized for its broad catalog portfolio of technologies and products, MACOM serves diverse markets, including CATV, wireless and optical communications infrastructure, satellite, radar, automotive, industrial, medical, and mobile devices. A pillar of the RF and microwave industry, we thrive on more than 60 years of solving our customers' most complex problems.

Headquartered in Lowell, Massachusetts, MACOM is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. MACOM has design centers and sales offices throughout North America, Europe, Asia and Australia.

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Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20130822005356/en/>

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