

# Miniaturized High-Power Surface Mount RF Limiters

200 Watt peak power limiter for SWaP-sensitive ELINT and EW applications such as missiles, munitions, avionics, and unmanned vehicles.



- 4mm x 3mm footprint
- RF input: 8.5 to 12 GHz
- Moisture sealed package with surface mount connections
- Designed for compatibility with Mercury's portfolio of low-noise amplifiers

Mercury Systems' portfolio of high-power surface mount RF limiters are precision engineered to deliver uncompromising performance for SWaP-sensitive applications demanding full functionality in the harshest of operating environments. Unique PIN diode architecture minimizes junction temperatures to assure long life under high-power conditions. By replacing cable interconnects with surface mount technology, physical footprint reductions are enabled without sacrificing performance or reliability.

ELO389 is a miniaturized X-band limiter with input frequencies from 8.5 to 12GHz. Mercury also designs and manufactures complementary broadband surface mount RF limiters, including ELO388 (0.1 to 18GHz). Please contact your Mercury Systems representative for more information.

## Specifications

### High-Power Input

Frequency range	8.5 to 12 GHz
Pulse width	5 $\mu$ Sec, maximum
Duty cycle	6%, maximum
Peak power	200 Watts, maximum
CW power	15 Watts, maximum

### Microwave Limiter

Frequency range	8.5 to 12 GHz
Insertion loss	1.2 dB, maximum
VSWR	1.7:1, maximum
Flat leakage	17 dBm, maximum
Spike leakage	23 dBm, maximum

### General Specifications

Operating temperature	-40°C to +85°C
Storage temperature	-45°C to +125°C
Dimensions	4mm x 3mm
Seal	Moisture sealed

Mercury Systems is a leading commercial provider of secure sensor and mission processing subsystems. Optimized for customer and mission success, Mercury's solutions power a wide variety of critical defense and intelligence programs.



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**CORPORATE HEADQUARTERS**

50 Minuteman Road • Andover, MA 01810 USA  
(978) 967-1401 • (866) 627-6951 • Fax (978) 256-3599

**EUROPE MERCURY SYSTEMS, LTD**

Unit 1 - Easter Park, Benyon Road, Silchester, Reading  
RG7 2PQ United Kingdom  
+ 44 0 1189 702050 • Fax + 44 0 1189 702321

