

50Ω Broad Band, 9 kHz to 6 GHz

Case PN: 6UDD2W6S1A2

Features:

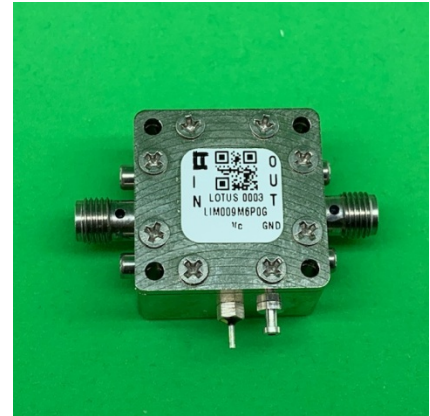
- * Frequency Range: 9 kHz to 6 GHz;
- * Adjustable power limiting threshold (+25 dBm to +35 dBm)
- * Max power handling 10W CW, 50W Pulsed
- * Fast response and recovery time of 1ns
- * Stainless Steel SMA Female Connector
- * ROHS Compliant

Applications:

- * Stabilize RF outputs
- * Reduce amplitude variations
- * Protect LNA and other devices from ESD or input power damage

General Description:

LIM009K6P0G is a RF limiter in a small 15/16"x15/16"x0.59" shielded RF enclosure (PN: 6UDD2W6S1A2). The limiter protects against ESD and input power surges over a frequency range 9 kHz to 6 GHz. The limiter provides protection for LNA in hostile environment.

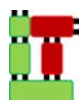
**Electrical Specifications:**

Item	Parameter	Condition	Electrical Specification			
			MIN	TYP	MAX	UNITS
1	Operational Frequency Range		9k		6000M	Hz
2	Insertion Loss	9 kHz – 3 GHz	--	0.45	0.7	dB
		3-6 GHz	--	0.80	1.05	dB
3	Return Loss	9 kHz – 3GHz		13		dB
		3-6 GHz		17		dB
4	P1dB/Limiting Threshold	$V_{ctrl} = -2.5V @915MHz$	--	35	--	dBm
		$V_{ctrl} = -1.5V @915MHz$	--	32	--	dBm
		$V_{ctrl} = -0.5V @915MHz$	--	25	--	dBm
5	Input IP3	$V_{ctrl} = -2.5V @915MHz$	--	70	--	dBm
		$V_{ctrl} = -2.5V @6GHz$	--	60	--	dBm
6	Response/recovery Time		--	1	--	nsec

Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	Max Input Power, CW ¹	40	dBm
2	Max Input Power, pulsed ²	47	dBm
2	Operating Temperature	-40 to +85	°C
3	Max Storage Temperature	-55 to +150	°C

Notes: 1. CW, 100% duty cycle, in 10 min, 50 Ohm system
 2. Pulsed, 0.1% duty cycle of 1us pulse width in 10 min, 50 Ohm system



Outline Drawing (Inch)

