

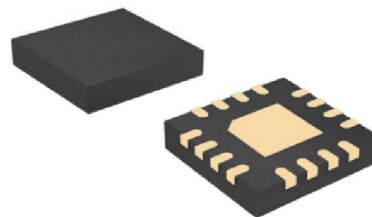
MLA0160A1

Broadband 10 to 6000MHz

MECSINE 兆讯

Applications

1. Reducing amplitude variations
2. Stabilizing generator outputs
3. Military, hi-rel applications
4. Protects low noise amplifiers and other devices from ESD or input power damage



Features

1. Low insertion loss 0.3 dB typ.
2. Output power, 18 dBm typ.
3. Wideband, 10 to 6000 MHz
4. Excellent high-power capacity up to average 15 watts

Description

Megsine' MLA0160A1 is a broadband surface-mount limiter, ideal for protecting sensitive receiver circuitry from high-power signals while allowing low-scattered signals to be received. With wide limiting range and +18 dBm output power, the MLA0160A1 is suitable for many situations where unwanted signals prevail. All components are 100% RF tested.

Characteristics

Item	Min.	Type.@25°C	Max.	Unit
Frequency Range	10		6000	MHz
Insertion Loss		0.3	0.38	dB
Limiting Range		16	18.2	dBm
Input Power			15	W
Output Power			18.2	dB
VSWR (:1)		1.25	1.5	:1
Operating Temp.	-40		+85	°C
Storage Temp.	-55		+150	°C

All the above data are based on specified demo board and tested in 25° environment.

All Use For RF & Microwave

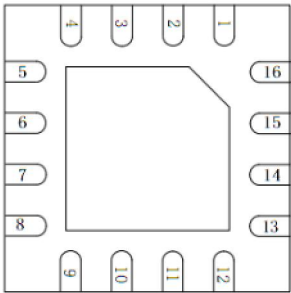
MLA0160A1

Broadband 10 to 6000MHz



Port Configurations

Top View



Port#	Connection
6,7	RF In
14,15	RF Out
Others	GND

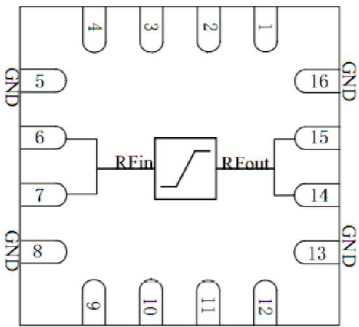
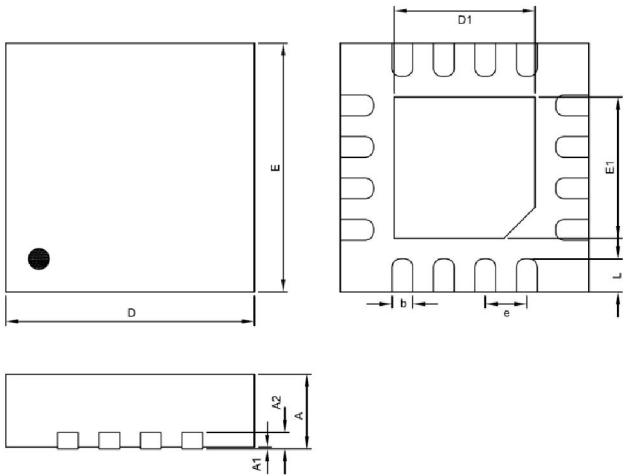


Figure 1. MLA0160A1 Electrical Schematic

Outline Drawing



MLA0160A1

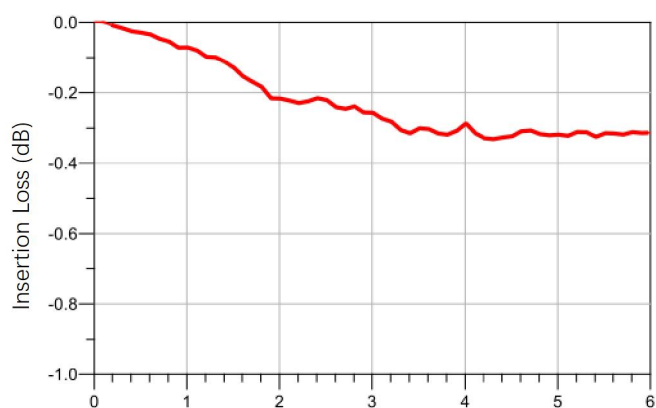
Broadband 10 to 6000MHz

MECSINE兆讯

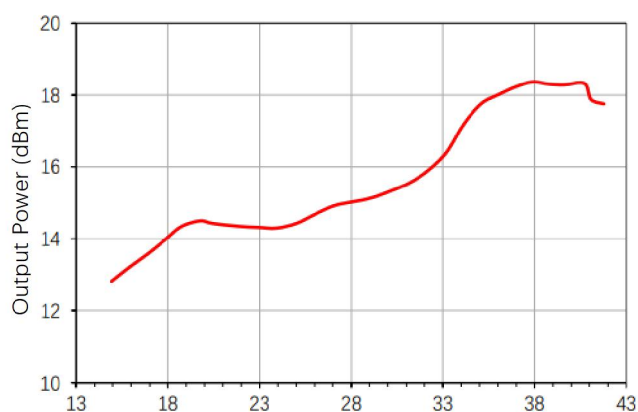
Item	Type.	Item	Type.	Unit
A	0.9	D1	1.7	mm
A1	0.05	E1	1.7	mm
A2	0.2	b	0.25	mm
D	3	e	0.5	mm
E	3	L	0.4	mm

Typical Performance

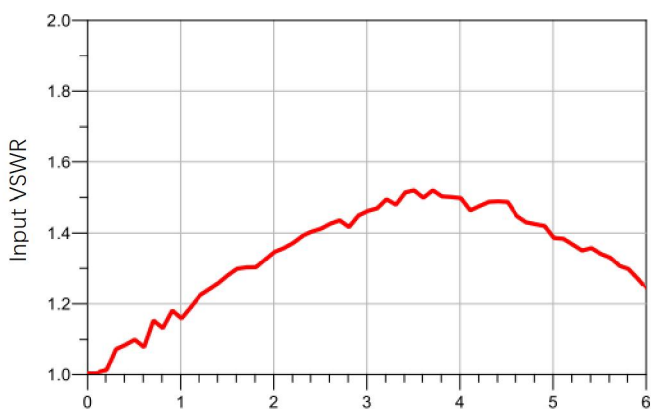
Insertion Loss



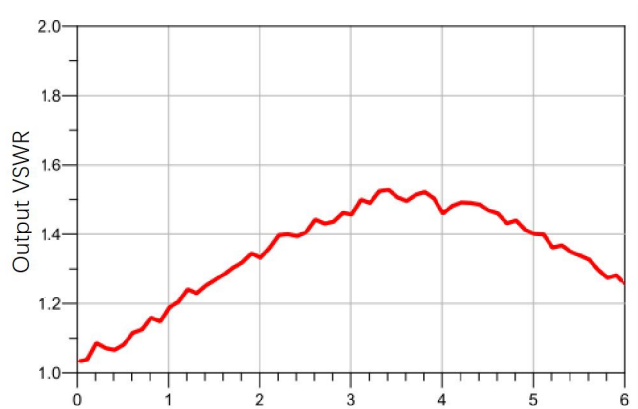
Limiter Voltage @ 6GHz



Input VSWR



Output VSWR



All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contain us for future information

Ju 09, 2021

MLA0160A1

Broadband 10 to 6000MHz



Revision	Description	Date
Rev0	Preliminary	2023/5/29
Rev1	Packaging	2023/10/29

All Use For RF & Microwave