

MLA0160A2

Broadband 0.01 to 4000MHz



Applications

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

Features

- 1, Low insertion loss 0.3 dB typ.
- 2, Output power, 18 dBm typ.
- 3, Wideband, 0.01 to 4000 MHz
- 4, Excellent high-power capacity up to average 10 watts

Description

The MLA0160A2 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 MLA0160A2 is suitable for many situations where unwanted signals prevail. All components are 100% RF tested.

Characteristics

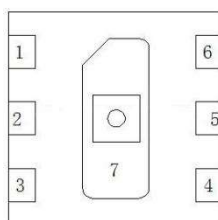
Table 1. MLA0160A2 Characteristics

Item	Min.	Type.@25°C	Max.	Unit
Frequency Range	0.01		4000	MHz
Insertion Loss		0.3	0.38	dB
Limiting Range		16	18.2	dBm
Input Power			10	W
Output Power			18.2	dB
VSWR (:1)		1.15	1.25	:1
Operating Temp.	-40		+85	°C
Storage Temp.	-55		+150	°C
Power			10	W

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

PORT CONFIGURATIONS

Figure 1. MLA0160A2 Port Configurations (Top View)



All Use For RF & Microwave

MLA0160A2

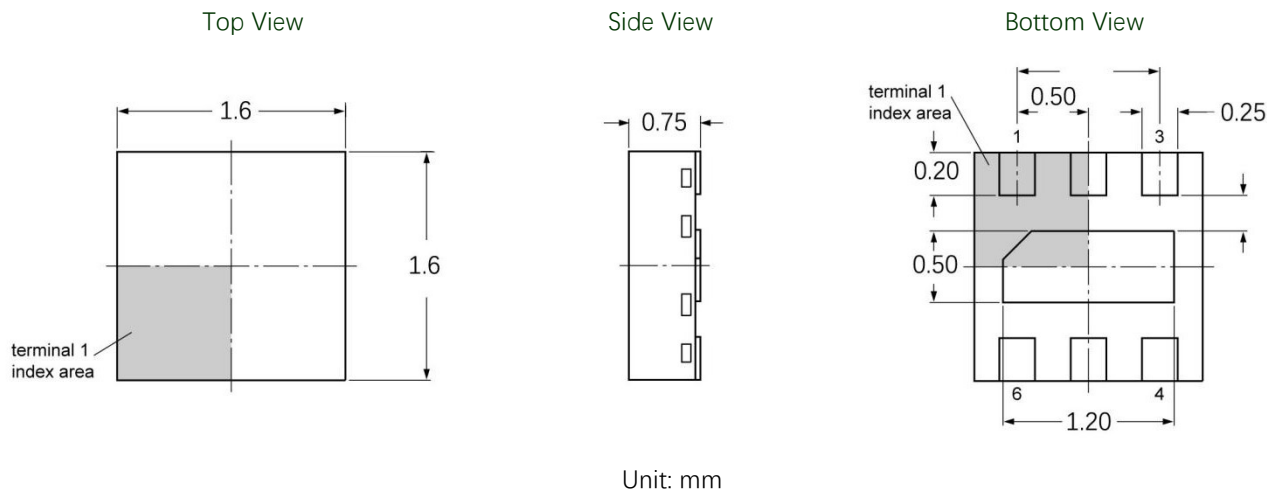
Broadband 0.01 to 4000MHz

Table 2. MLA0160A2 Port Configurations

Port#	Connection
2	RF In
5	RF Out
7	GND
1/6/3/4	GND or NC

Outline Drawing

Figure 2. MLA0160A2 Outline Drawing



Typical Performance (25°C)

Figure 3. MLA0160A2 Insertion Loss

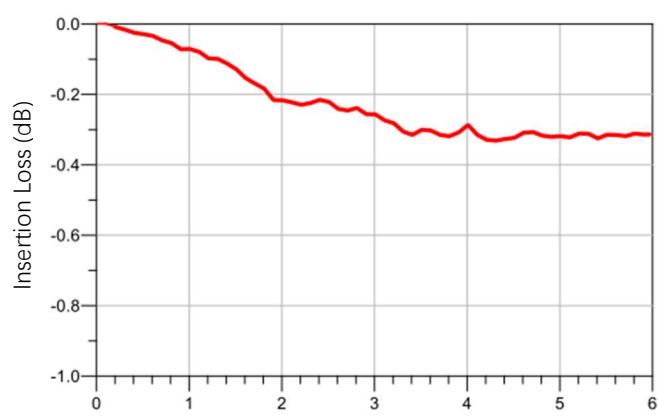
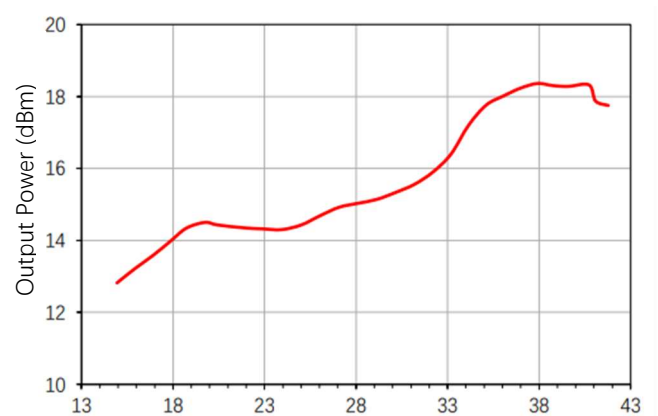


Figure 4. MLA0160A2 Limiter Voltage @ 4GHz



MLA0160A2

Broadband 0.01 to 4000MHz



Figure 5. MLA0160A2 Input Return Loss

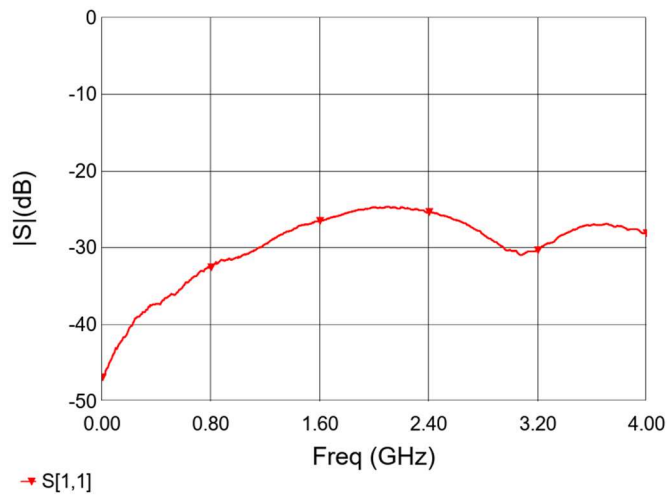
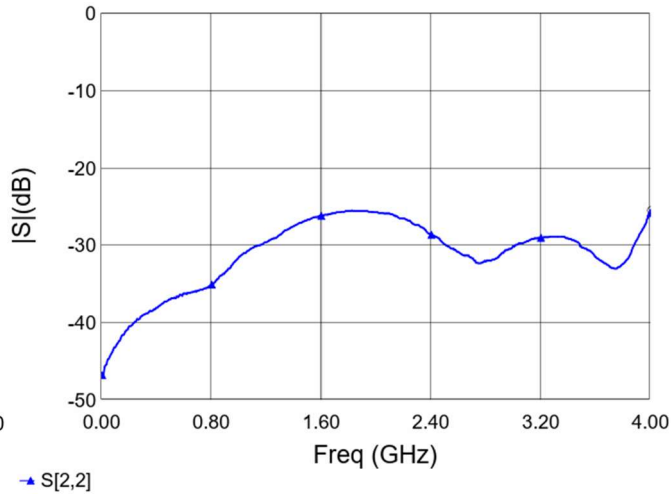


Figure 6. MLA0160A2 Output Return Loss



Packaging and Ordering Information

Figure 7. MLA0160A2 Packaging Information

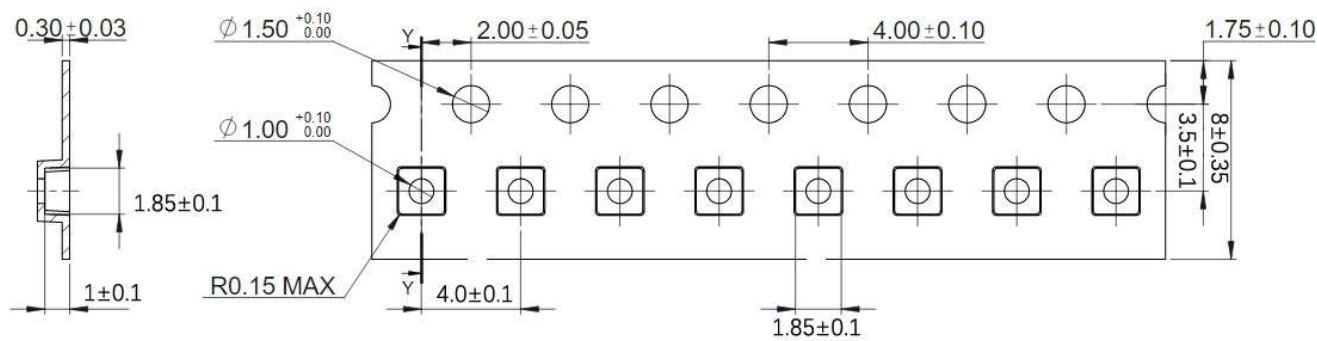


Table 3. MLA0160A2 Ordering Information

Device	Package	Reel	Shipping
MLA0160A2	1.6*1.6*0.75mm	7"	4000 Reel

MLA0160A2

Broadband 0.01 to 4000MHz



Revision	Description	Date
Rev0	Preliminary	2024/1/29
Rev1	Packaging description	2025/2/23