

KA15LA-52

Limiter Amplifier
5 - 15 GHz



Description:



The KA15LA-52 is a 5 - 15 GHz amplifier with input limiting supplied in a LCC microwave surface mount package. This switched amplifier is ideal for high performance commercial and high reliability applications where optimum performance is required.

Features:

- Broadband operation from 5 - 15 GHz
- Surface mount hermetic package
- Low noise figure
- Capable of meeting MIL-STD/Space requirements

Operating Conditions

Characteristic	Min Value	Max Value
RF Input Power (RF in)		+37 dBm
Gate Voltage (Vg)	-1.0V	+0.5V
Drain Voltage (Vd)	4.5	5.5
Drain Current (Id)		240mA
Operating Temperature (Top)	-40°C	+95°C
Storage Temperature (Tst)	-54°C	+150°C

Electrical Specification at 25°C (Vc Low = 0:Vc High = -6V)

Parameter	Condition	Min	Typ	Max	Units
Gain	5.0 - 15.0 GHz	5.0	6.0		dB
VSWR (I/O)	5.0 - 15.0 GHz		1.8:1	2.0:1	

Operating Characteristics at 25°C

Parameter	Condition	Min	Typ	Max	Units
1dB Compression	5.0 - 15.0 GHz		+13		dBm
3 rd Order Intercept	5.0 - 15.0 GHz		+24		dBm

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Typical Performance Data

Gain/Input VSWR

