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<u> 查询"SMA56"供应商</u>

Cascadable Amplifier 5 to 400 MHz

MACOM

A56/ SMA56

V2

Features

- AVAILABLE IN SURFACE MOUNT
- HIGH GAIN-TWO STAGES 26 dB
- MEDIUM OUTPUT LEVEL: +13.5 dBm (TYP.)
- HIGH THIRD ORDER I.P. + 27 dBm (TYP.)

Description

The A56 RF amplifier is a discrete hybrid design, which uses thin film manufacturing processes for consistent performance and high reliability.

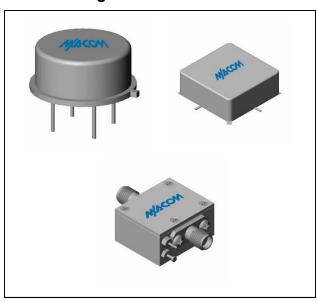
This 2 stage bipolar transistor feedback amplifier design displays impressive performance over a broadband frequency range. An active DC biasing network insures temperature-stable performance.

Both TO-8 and Surface Mount packages are hermetically sealed, and MIL-STD-883 environmental screening is available

Ordering Information

Part Number	Package	
A56	TO-8	
SMA56	Surface Mount	
CA56	SMA Connectorized	

Product Image



Electrical Specifications: $Z_0 = 50\Omega$, $V_{CC} = +15 V_{DC}$

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Parameter	Units	Typical	Guaranteed	
raiailletei		25°C	0° to 50°C	-54° to +85°C*
Frequency	MHz	3-500	5-400	5-400
Small Signal Gain (min)	dB	26.0	24.0	23.0
Gain Flatness (max)	dB	±0.3	±1.0	±1.0
Reverse Isolation	dB	38		
Noise Figure (max)	dB	5.5	7.0	7.5
Power Output @ 1 dB comp. (min)	dBm	13.5	12.5	12.0
IP3	dBm	+27		
IP2	dBm	+48		
Second Order Harmonic IP	dBm	+54		
VSWR Input / Output (max)		1.4:1 / 1.4:1	1.9:1 / 1.9:1	2.0:1 / 2.0:1
DC Current @ 15 Volts (max)	mA	69	75	79

Absolute Maximum Ratings

Parameter	Absolute Maximum	
Storage Temperature	-62°C to +125°C	
Case Temperature	+125°C	
DC Voltage	+17 V	
Continuous Input Power	12 dBm	
Short Term Input power (1 minute max.)	50 mW	
Peak Power (3 µsec max.)	0.5 W	
"S" Series Burn-In Temperature (case)	+125°C	

Thermal Data: $V_{CC} = +15 V_{DC}$

Parameter	Rating	
Thermal Resistance θ_{jc}	45°C/W	
Transistor Power Dissipation P _d	0.159 W	
Junction Temperature Rise Above Case T _{jc}	7°C	

 $^{^{\}star}$ Over temperature performance limits for part number CA56, guaranteed from 0°C to +50°C only.

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[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

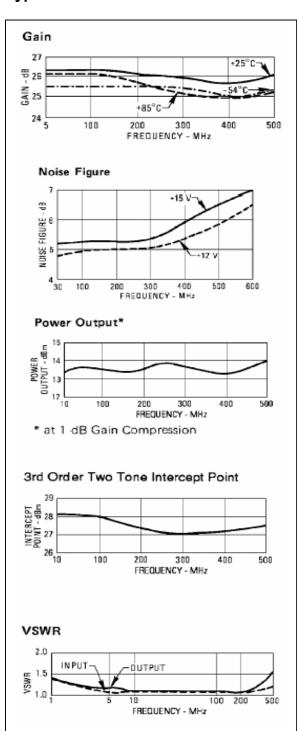


A56/ SMA56

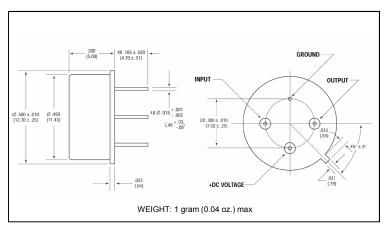
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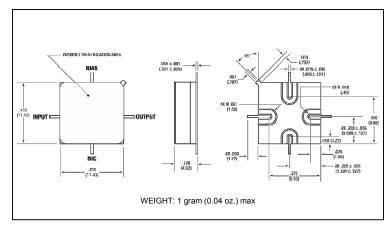
Typical Performance Curves at +25°C



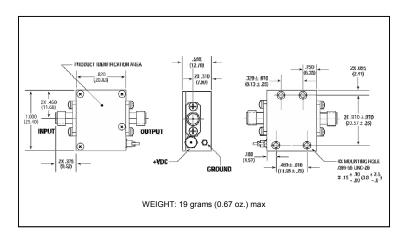
Outline Drawing: TO-8 *



Outline Drawing: Surface Mount *



Outline Drawing: SMA Connectorized *



- * Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.
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