



Model Number # AML056P4511

ECCN # EAR99

FEATURES:

- Internal voltage regulator, reverse voltage protection, and DC filter feed through are included.
- Amplifier is in hermetically sealed housing with field removable SMA (f) connectors.
- ATP (100%) testing includes Gain, Flatness, NF, Psat, VSWR, and DC Current measurement at room temperature.

ELECTRICAL SPECIFICATIONS:

PARAMETER	MIN	TYP	MAX	UNITS
Frequency Range	0.5		6.0	GHz
Gain	45			dB
Gain Flatness vs. Freq.			±3.0	dB
Noise Figure			6.0	dB
Psat	40	41		dBm
Psat		10		Watts
DC Voltage		40		V
DC Current		1.5		A
PAE		25		%
Operating Temperature	-54		+85	°C
TTL Control	DC On/Off			
Switching Speed	On: 250 ns nom Off: 500 ns nom			
50% TTL – 90% RF/10% RF				
DC Power in Off condition	<10% full RF			

Specifications above are at +25°C unless stated otherwise

OUTLINE:

This Document is the property of Microsemi Corporation. The information contained in this Document shall not be reproduced, copied, released or made available to any third parties without prior written authorization. Using information contained in this Document for manufacturing or sale of products without prior written authorization is strictly prohibited.

ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR THE PROTECTION OF ELECTRICAL AND ELECTRONIC PARTS, ASSEMBLIES AND EQUIPMENT SHALL BE IN ACCORDANCE WITH MIL-STD-1888 AND MIL-1889-2/3.

REVISIONS				
ECN#	REV	DESCRIPTION	DATE	APPROVED
18251	-	INITIAL RELEASE	3/26/14	S.GALBREATH

NOTES:

1. PAINT GREY PER MIL-PRF-22750. DO NOT PAINT MOUNTING SURFACE, RF CONNECTORS, OR DC PINS.
2. MARK AS SHOWN IN BLACK PER MIL-STD-130.
3. MARK DATE CODE/SERIAL NUMBER AS DEFINED BY TRAVELER.
4. MOUNTING SURFACE FINISH IS ELECTROLESS NICKEL.
5. THIS IS A STATIC SENSITIVE DEVICE. HANDLE ACCORDINGLY.
6. UNIT SHALL BE ATTACHED TO A SUITABLE HEATSINK BY END USER. HEATSINK SHALL BE DESIGNED TO MAINTAIN A MAXIMUM CASE TEMPERATURE OF +70°C. THE USE OF THERMALLY CONDUCTIVE INTERFACE BETWEEN CASE AND HEATSINK IS HIGHLY RECOMMENDED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS FRACTIONS ANGLES	CAD MC	CHECK BY SH	TITLE: OUTLINE, AML056P4511, 0.5–6.0 GHz, POWER AMP
THIRD ANGLE PREDICTION	DESIGNED BY WK	DATE 3/24/14	SCALE: NTS
APPROVED	ENGR W. KNEIZEH 3/24/14	DATE 3/21/2014	DATE 3/21/2014
ENGR E. LEIFSON 3/24/14	MFG ENDR E. HERNANDEZ 3/24/14	DATE 3/24/14	DATE 3/24/14
DA S. HOLLINGER 3/25/14	RELEASED BY S. GALBREATH 3/26/14	DATE 3/26/14	DATE 3/26/14
DO NOT SCALE DRAWING			

GENERAL FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)

1. REMOVE ALL BURRS AND BICKY.
2. SHARP EDGES JOG 0.005.
3. DIMENSIONS APPLY AFTER FINISH.
4. INTERPRET DRAWING PER ANSI/ASME Y14.5-2009

CODE IDENT. 0AFE6

BOM NUMBER: AML056P4511
SHEET NUMBER: 1 OF 1
DRAWING NUMBER: 002-1142

Specifications are subject to change without notice