

CATALOG LISTING
SS94A2

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PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS/REMARKS
SUPPLY VOLTAGE	6.6	8.0	12.6	VOLTS	-40°C TO +125°C
SUPPLY CURRENT		13	30	mA	MAX @ 12.6 V @ -40°C
OUTPUT CURRENT			1	mA	SINKING OR SOURCING
OUTPUT SPAN		.625 V _S		VOLTS	-500G TO +500G @ 25°C $\nabla/5$
SENSITIVITY	4.90	5.0	5.10	mV/g	@ 8.0 V _S & 25°C
LINEARITY	-1.5	-.8	0	% OF SPAN	DEV FROM STR LINE THRU -500 AND +500
V _{OUT} @ 0 GAUSS	3.960	4.000	4.040	VOLTS	25°C
TEMP ERROR-NULL	-.02		+.02	%/°C	-40°C TO +125°C
TEMP ERROR-GAIN	-.02		+.02	%/°C	-40°C TO +125°C

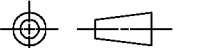
A graph showing the relationship between Output Voltage (V OUT) and Gauss for the ADXL045 accelerometer. The x-axis is labeled 'GAUSS' and ranges from -500 to +500. The y-axis is labeled 'V OUT' and ranges from 1.5 VOLTS to 4 VOLTS. A solid line represents the output voltage, which is linear and passes through the origin (0, 0). Dashed lines indicate the output voltage at -500 GAUSS (1.5 VOLTS) and +500 GAUSS (4 VOLTS). An arrow points to the line with the label 'OUTPUT VOLTAGE'.



- 1 CENTERLINE OF HALL CELL (IC) ONLY.
THE LOCATION OF THE CERAMIC COVER IS NOT SPECIFIED
- 2 THE + MAGNETIC FLUX IS IN THIS DIRECTION (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)
- 3 - THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
- 4 - OUTPUT TYPE - RATIOMETRIC
- 5 THE OUTPUT IS CLAMPED AT 9.0 VDC MINIMUM, 9.5 VDC TYPICAL
- 6 THIS SIDE COATED WITH CONDUCTIVE MATERIAL WHICH IS ELECTRICALLY CONNECTED TO (-) TERMINAL

ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION



SCALE 5 : 1

DO NOT SCALE PRINT

**UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE**

ONE PLACE	(.0)	$\pm .030$
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TWO PLACE (.00) ±.015

THREE PLACE (.000) $\pm .005$

ANGLES $\pm$

WEIGHT

