

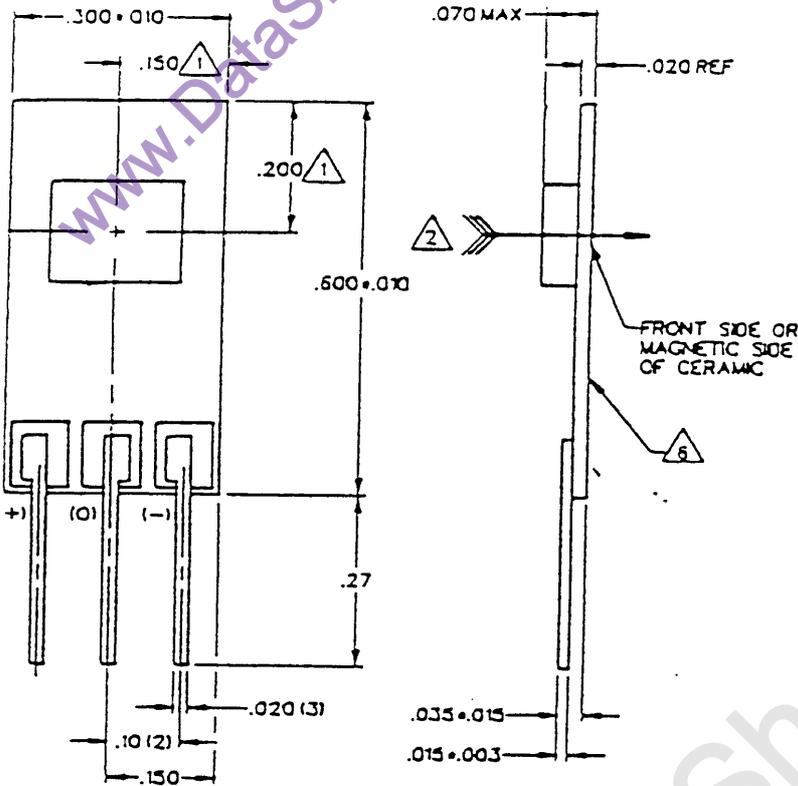
FEC

LINEAR OUTPUT HALL EFFECT TRANSDUCER

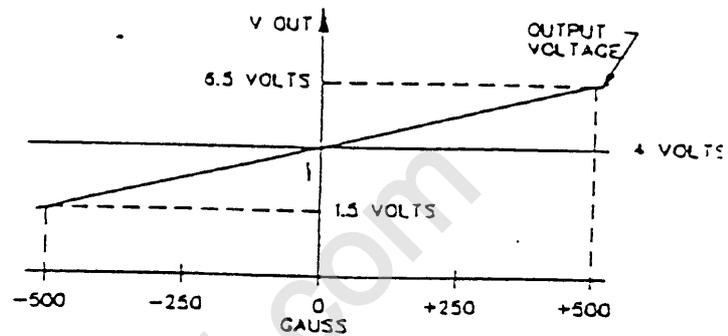
405-620

Order Code SS94A2

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NOMINAL TRANSFER CHARACTERISTICS AT 8.0 VDC



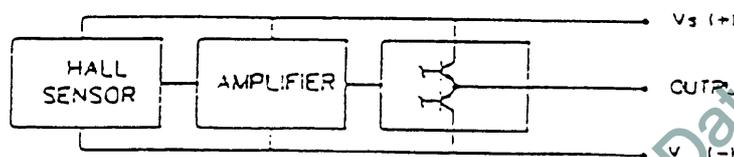
NOTES

- (1) CENTERLINE OF HALL CELL
- (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

OPERATING CHARACTERISTICS

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/G		VOLTS	-500G TO +500G @ 25°C (5)
SENSITIVITY	4.90	5.0	5.10	mV/g	@ 8.0 V _S @ 25°C
LINEARITY			1.0	% 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	-0.2		+0.2	%/°C	-40°C TO +125°C
TEMP ERROR-GAIN	-0.2		+0.2	%/°C	-40°C TO +125°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



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