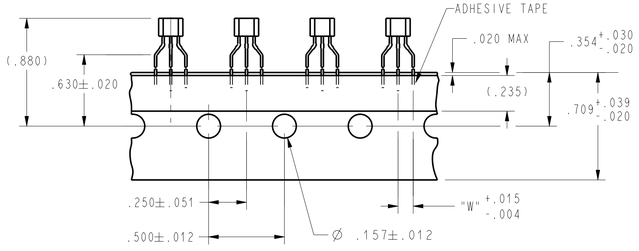
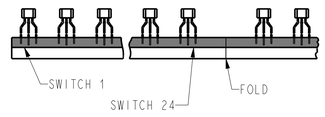
TAPE PACKING OPTIONS

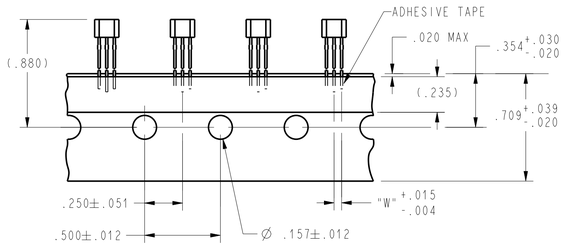


TAPE DIMENSIONS

TAPE STYLE

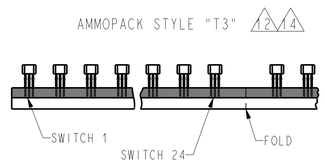
AMMOPACK STYLE "T2" 12 14

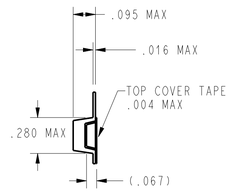




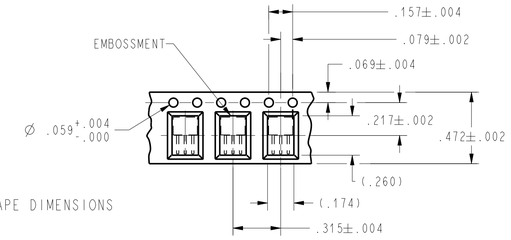
TAPE DIMENSIONS

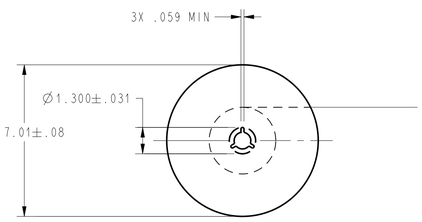
AMMOPACK STYLE "T3" 12 14





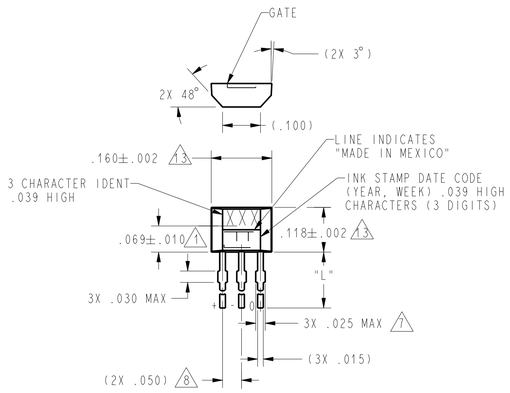
TAPE DIMENSIONS

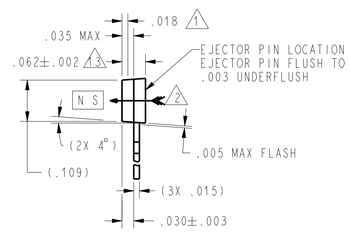




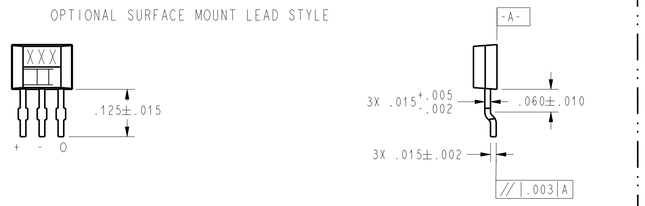
DIRECTION OF FEED FROM REEL

TAPE STYLE "P" 15





OPTIONAL SURFACE MOUNT LEAD STYLE



NOTES

1. CENTERLINE OF HALL CELL
2. THE + MAGNETIC FLUX IS IN THE DIRECTION SHOWN (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. LEADS MUST BE ADEQUATELY SUPPORTED DURING ANY FORMING/SHEERING OPERATION TO ASSURE THAT THE LEADS ARE NOT STRESSED WITHIN THE PLASTIC
6. PCB WAVE SOLDERING GUIDELINES ARE AS FOLLOWS: 250°C TO 260°C SOLDERING TEMPERATURE 3 SECONDS MAX SOLDERING TIME
7. BURRS ARE ALLOWED ONLY IF FULL LENGTH OF LEADS WILL PASS THROUGH Ø.023 HOLE. LEAD REFERENCE DIMENSIONS DO NOT INCLUDE SOLDER THICKNESS
8. DIMENSION REFERS TO THE LOCATION OF LEAD CENTERLINES AS THE EXIT THE PLASTIC PACKAGE
9. SOME COMBINATIONS OF BASIC LISTING AND PACKAGE OPTIONS MAY NOT BE AVAILABLE
10. ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL MOMENTARILY WITHSTAND WITHOUT DAMAGE TO THE DEVICE. ELECTRICAL AND MAGNETIC CHARACTERISTICS ARE NOT GUARANTEED IF THE RATED VOLTAGE AND/OR CURRENTS ARE EXCEEDED NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATINGS
11. LEAD STRAIGHTNESS MAY BE DETERIORATED ON SOME UNITS BY BULK PACKAGING. APPLICATIONS HAVING A CRITICAL LEAD STRAIGHTNESS REQUIREMENT SHOULD USE A TAPE PACKAGING OPTION
12. AMMOPACK STYLE "T2" & "T3". 24 SWITCHES BETWEEN FOLDS, SKIP 1 SPACE AT FOLD. MAY BE REFERRED TO AS "FAN FOLD"
13. MOLDED PART DIMENSIONS DO NOT INCLUDE FLASH. FLASH IS LIMITED TO .005 MAX
14. TAPE AND AMMOPACK PER EIA-468
15. POCKET TAPE PER EIA-481

CATALOG LISTING	TAPE STYLE	DIM "L"	DIM "W"	COMMENTS 11
SS494B	NONE	.590	.050	BULK - 1000/BAG
SS494B-T2	T2	.590	.100	5000/BOX
SS494B-T3	T3	.590	.050	5000/BOX
SS494B-S	NONE	.125	.050	BULK - 1000/BAG
SS494B-SP	P	.125	.050	1000/PACKET TAPE AND REEL

CAUTION ELECTROSTATIC SENSITIVE DEVICES DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION

ESD SENSITIVITY: CLASS 3

ANSI Y14.5M-1982 APPLIES

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MINIATURE RATIOMETRIC LINEAR HALL EFFECT SENSOR

CATALOG LISTING: SS494 SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 5:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	+.030
TWO PLACE	(.00)	+.015
THREE PLACE	(.000)	+.005
ANGLES		+2°

WEIGHT

DRAWING NUMBER: MSS494 SERIES CHART 1 | PAGE: 1 OF 2 | RELEASE NO.: PR 24441 | REPLACES: X112524-SS | ISSUE 4

REVISIONS
A 205892 S N 24 JUN 02
B 0000946 JLH 21JUL03

PTC/CAD 20 | DRAWN: C S L 4 APR 02 | CHECK | SAV 4 APR 02 | CHECK

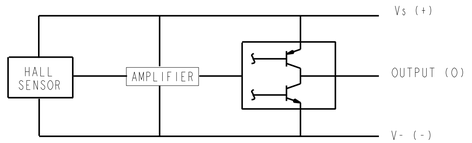
CHARACTERISTICS ARE AT Vs=5.00 WITH 4.7K OUTPUT TO MINUS WITH TA= -40°C TO +125°C UNLESS OTHERWISE SPECIFIED

SS494B

M SS494 SERIES CHART 1

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25° C	4.6	5.0	5.4	mV/GAUSS
NULL	TA = 25° C	2.26	2.50	2.74	VOLTS
SUPPLY CURRENT	TA = 25° C		7	8.7	mA
OUTPUT CURRENT SOURCE	Vs > 4.5	1mA	1.5mA		
SINK	Vs > 4.5	.6mA	1.5mA		
SINK	Vs > 5.0	1mA	1.5mA		
RESPONSE TIME			3µS		
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.4	.2		VOLTS
VOM +	+B APPLIED	Vs -.4	Vs -.2		VOLTS
B LIMITS FOR LINEAR	-B MAX	-375	-420		GAUSS
OPERATION	+B MAX	+375	+420		GAUSS
Vnull DRIFT	B = 0, TA = 40°C TO 125°C	-.064		+.064	% /°C
Vnull DRIFT	B = 0, TA = +125°C TO +150°C	-.02		+.08	% /°C
SENSITIVITY DRIFT	TA=+25° C TO +150° C	-.02		+.08	% /°C
SENSITIVITY DRIFT	TA=-40° C TO +25° C	0		+.08	% /°C
LINEARITY	B = -375 TO +375	0	-1.0	-1.5	% OF SPAN
SUPPLY VOLTAGE	-40° C TO +125° C	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	°C

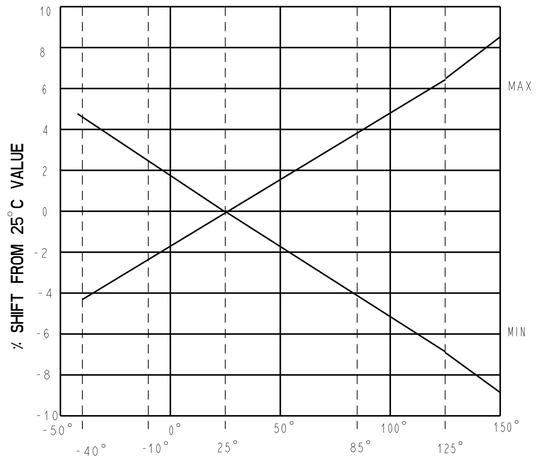
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



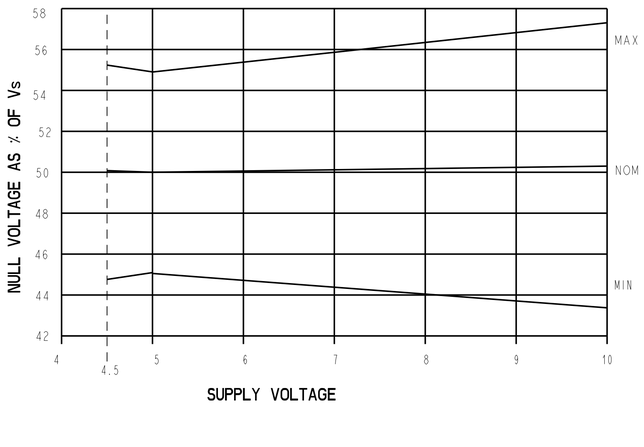
ABSOLUTE MAXIMUM CHARACTERISTICS (10)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	Vcc		-0.5	11	V
OUTPUT VOLTAGE	Vout		-0.5	11	V
OUTPUT CURRENT	Iout	SOURCE OR SINK		10	mA
TEMPERATURE	TA	OPERATING	-55	150	°C
	Ts	STORAGE (Vcc=0)	-55	165	°C

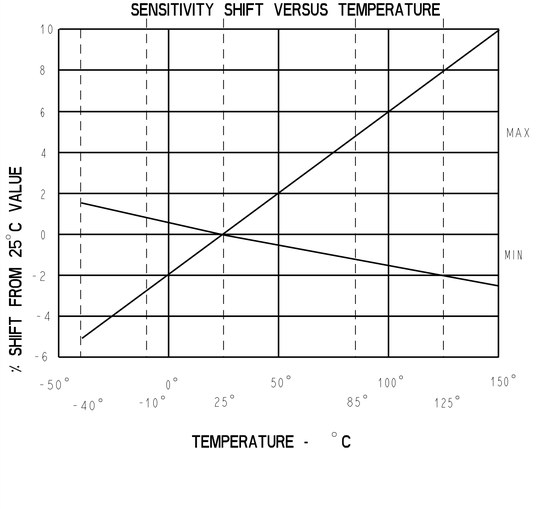
NULL SHIFT VERSUS TEMPERATURE



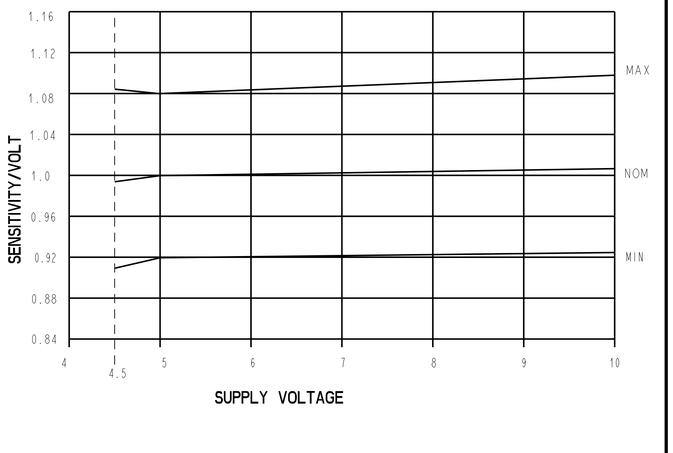
RATIO OF Vnull TO Vs



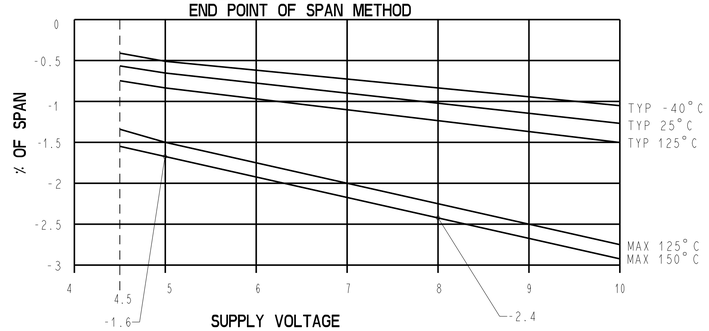
SENSITIVITY SHIFT VERSUS TEMPERATURE



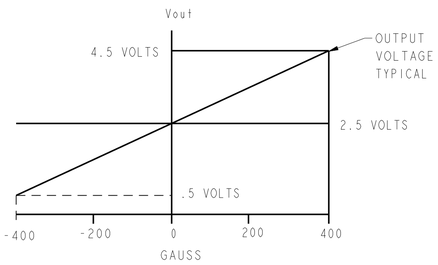
SENSITIVITY/V VERSUS Vs
(mV/GAUSS/VOLT)



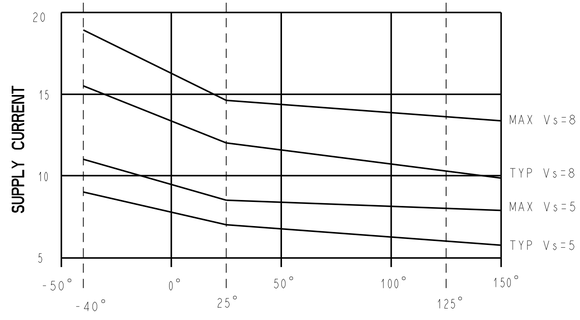
LINEARITY VERSUS Vs
END POINT OF SPAN METHOD



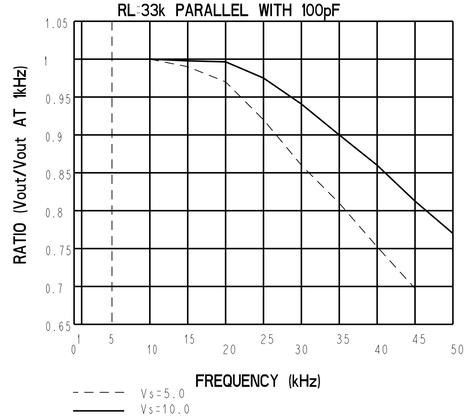
TRANSFER CHARACTERISTICS AT Vs=5.0 VDC



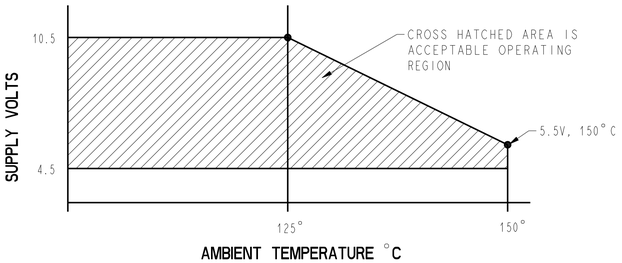
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE
RL=33k PARALLEL WITH 100pF



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



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ESD SENSITIVITY: CLASS 3

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MINIATURE RATIOMETRIC LINEAR HALL EFFECT SENSOR

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ONE PLACE (.0) +.030
TWO PLACE (.00) +.015
THREE PLACE (.000) +.005
ANGLES +2°

WEIGHT

DRAWING NUMBER M SS494 SERIES CHART 1 — PAGE 2 OF 2 — RELEASE NO. PR-24441 — ISSUE 4

REVISIONS
A 205892 I S M 24 JUN 02
B 0000946 JLH 21JUL93

PTC/CAD 2D — DRAWN C S L 14 APR 02 — CHECK — SAV 4 APR 02 — CHECK — CHECK — CHECK — REPLACES 111524-SS