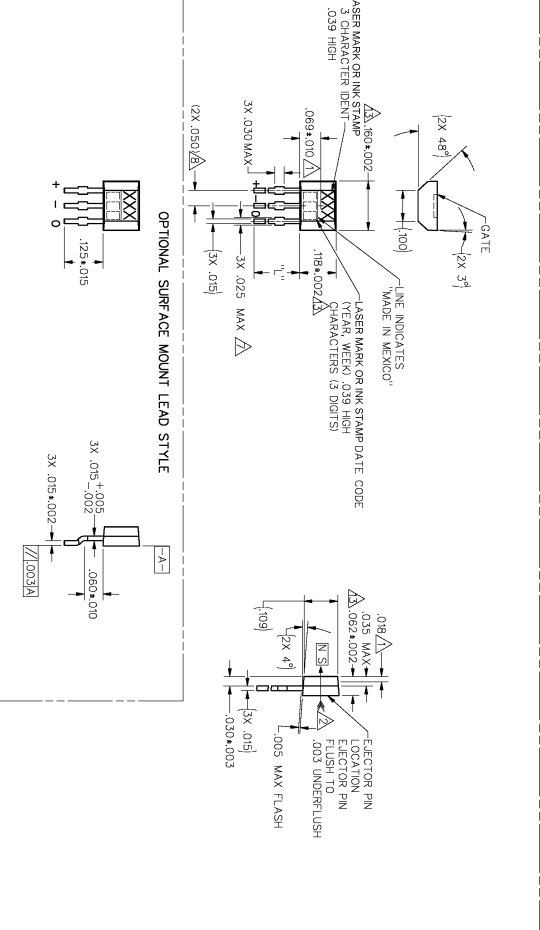
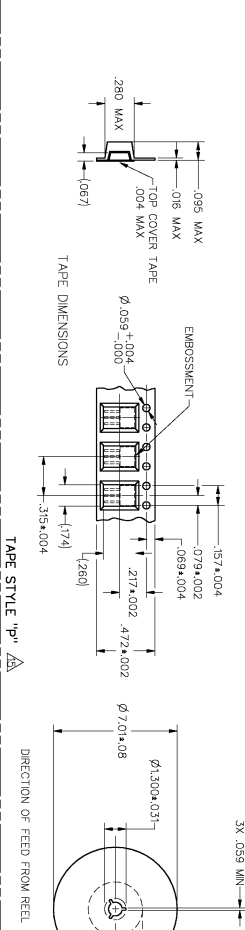
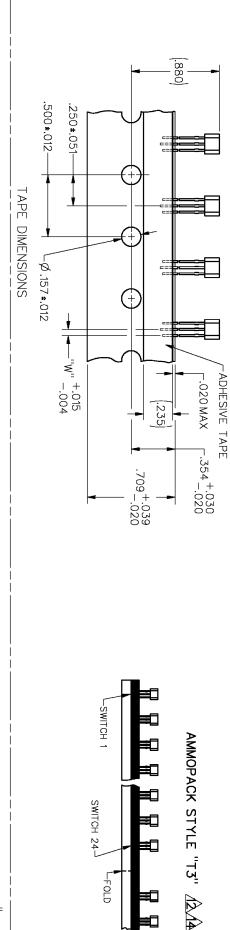
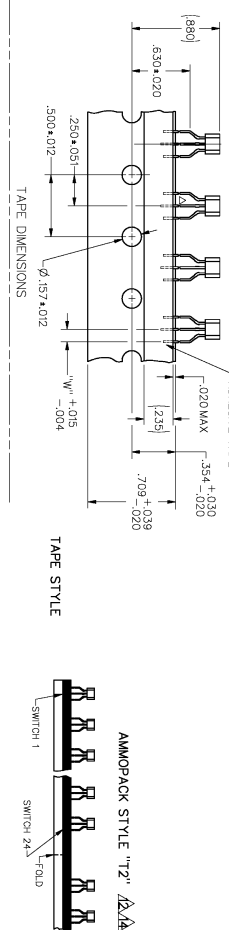


TAPE PACKING OPTIONS



- NOTES
- 1 - CENTERLINE OF HALL CELL
  - 2 - DIMENSION "L" IS IN THE DIRECTION SHOWN. THIS ASSURES THE CONNECTION OF THE EXTERNAL FLUX OF A MOUNT IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET
  - 3 - THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
  - 4 - OUTPUT TYPE - RADIOMETRIC SUPPORTED DURING ANY FORMING/SHEERING OPERATION TO AVOID DAMAGE TO THE DEVICE
  - 5 - ASSURE THAT THE LEADS ARE NOT STRESSED WITHIN THE PLASTIC
  - 6 - PCB WAVE SOLDERING GUIDELINES ARE AS FOLLOWS:
    - BARBS ARE ALLOWED ONLY IF FULL LENGTH OF LEADS WILL PASS THROUGH  $\phi 0.23$  HOLE.
    - ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL MOMENTARILY WITHSTAND WITHOUT DAMAGE TO THE DEVICE. ELECTRICAL AND MAGNETIC CHARACTERISTICS OF THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATINGS.
    - LEAD STRAIGHTNESS MAY BE DETERIORATED ON SOME UNITS BY BULK PACKAGING.
  - 7 - DIMENSION REFERS TO THE LOCATION OF LEAD CENTERLINES AS THE EXIT THE PLASTIC PACKAGE
  - 8 - ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL MOMENTARILY WITHSTAND WITHOUT DAMAGE TO THE DEVICE. ELECTRICAL AND MAGNETIC CHARACTERISTICS OF THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATINGS.
  - 9 - SOME COMBINATIONS OF BASIC LISTING AND PACKAGE OPTIONS MAY NOT BE AVAILABLE
  - 10 - USE A TAPE PACKAGING OPTION 24 SWITCHES BETWEEN FOLDS, SKIP 1 SPACE AT FOLD. MAY BE REFERRED TO AS "AN FOLD"
  - 11 - WOLDED PART DIMENSIONS DO NOT INCLUDE FLASH. FLASH IS LIMITED TO .005 MAXIMUM
  - 12 - TAPE AND AMMOPACK PER EA-468
  - 13 - POCKET TAPE PER EA-461

CATALOG LISTING	TAPE STYLE	DIM "L"	DIM "W"	COMMENTS
SS496A	NONE	.590	.050	BULK-1000/BAG
SS496A-T2	NONE	.590	.100	5000/BOX
SS496A-T3	NONE	.590	.125	BULK-1000/BAG
SS496A-S	P	.125	.050	1000/PACKET TAPE AND REEL
SS496A-SP	NONE	.590	.050	BULK-1000/BAG
SS496A-T2	NONE	.590	.100	5000/BOX
SS496A-T3	NONE	.590	.125	BULK-1000/BAG
SS496A-T3	NONE	.590	.125	1000/PACKET TAPE AND REEL
SS496B	NONE	.590	.050	BULK-1000/BAG
SS496B-T2	NONE	.590	.100	5000/BOX
SS496B-T3	NONE	.590	.125	1000/PACKET TAPE AND REEL
SS496B-S	NONE	.125	.050	5000/BOX
SS496B-SP	P	.125	.050	1000/PACKET TAPE AND REEL

ESD SENSITIVITY

Micro Switch

MINIATURE RADIOMETRIC SWITCH

SS496 SERIES CHART 1

THIS DRAWING CONVEYS A PRODUCT'S GENERAL APPEARANCE. IT IS NOT A SUBSTITUTE FOR THE SPECIFICATION OF THE PRODUCT. THE USER SHOULD REFER TO THE SPECIFICATION FOR THE PRODUCT FOR THE COMPLETE LIST OF DIMENSIONS AND TOLERANCES.

SCALE: 5:1

THIS DRAWING IS A PHOTOGRAPHIC COPY OF THE ORIGINAL DRAWING. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

DATE: 10/10/95

BY: J. A. F. 5/25/95

CHK: J. A. F. 5/25/95

APP: J. A. F. 5/25/95

REV: 1

REVISIONS

DATE

BY

CHK

APP

REV

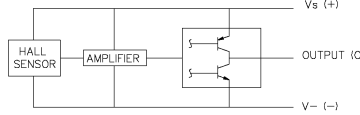
CHARACTERISTICS ARE AT  $V_s=5.00$  WITH 4.7K OUTPUT TO MINUS WITH  $T_A = -40^{\circ}\text{C}$  TO  $+125^{\circ}\text{C}$  UNLESS OTHERWISE SPECIFIED

SS496A

SS496 SERIES CHART 1

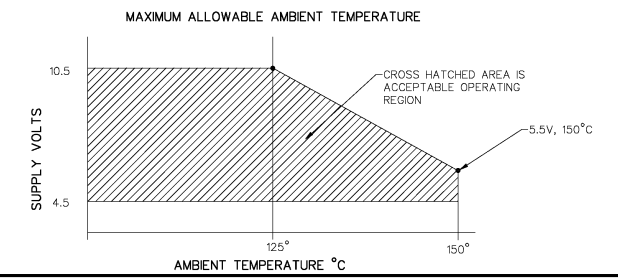
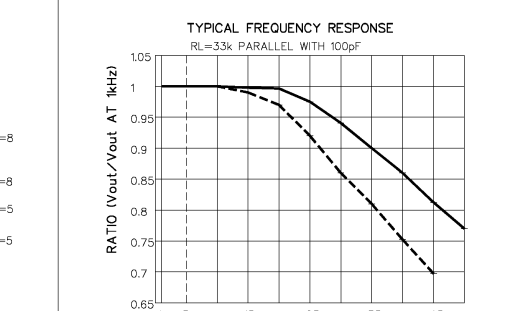
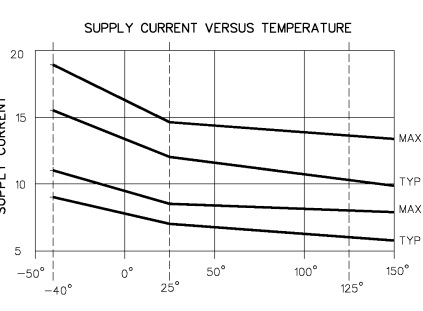
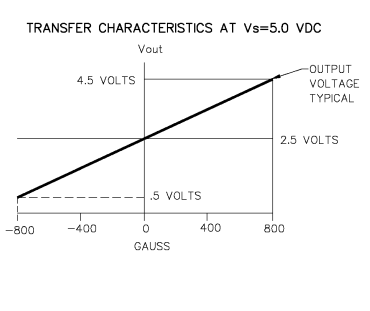
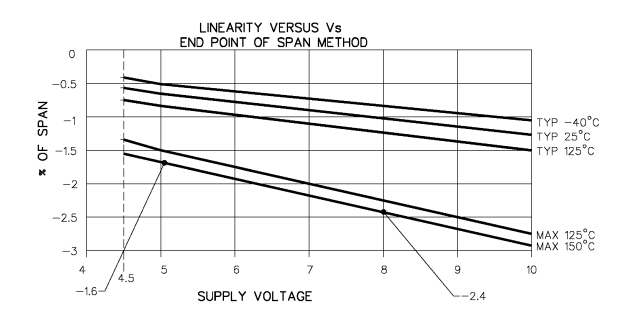
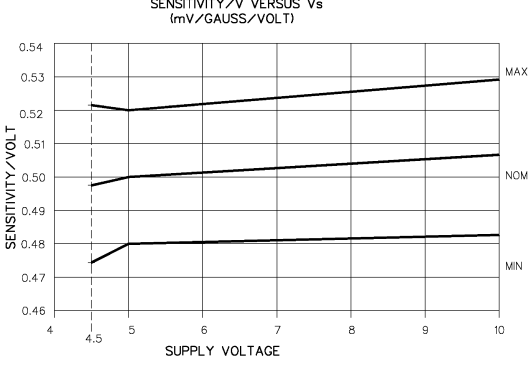
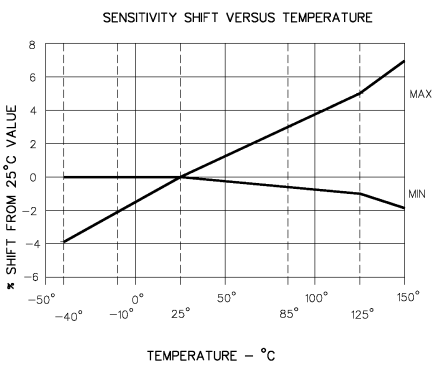
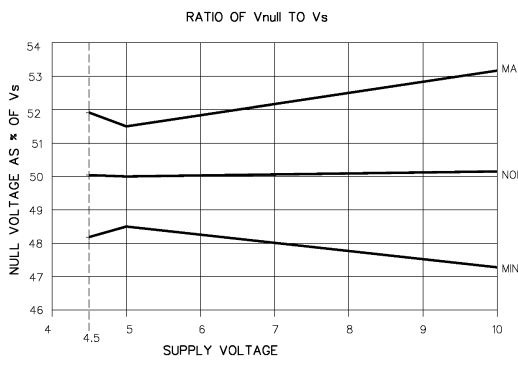
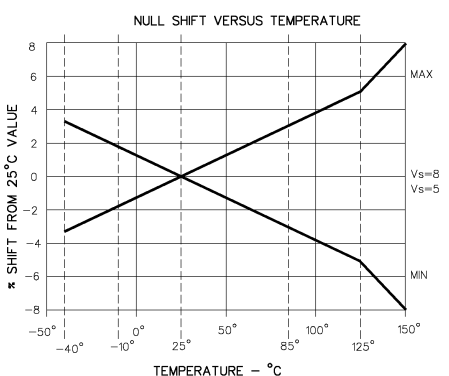
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.4	2.5	2.6	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
OUTPUT CURRENT SINK	$V_s > 4.5$	.6mA	1.5mA		
OUTPUT CURRENT SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3μs		
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.4	.2		VOLTS
VOM +	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					
-B MAX		-750	-840		GAUSS
+B MAX		+750	+840		GAUSS
Vnull DRIFT	$B = 0, T_A = 25^{\circ}\text{C}$ TO $125^{\circ}\text{C}$		-0.048		% / °C
Vnull DRIFT	$B = 0, T_A = +125^{\circ}\text{C}$ TO $+150^{\circ}\text{C}$		-0.064		% / °C
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$		-0.01		% / °C
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C}$ TO $+25^{\circ}\text{C}$		0		% / °C
LINEARITY	$B = -600$ TO $+600$	0	-1.0		% OF SPAN
SUPPLY VOLTAGE	$-40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$	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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	$V_{cc}$		-0.5	11	V
OUTPUT VOLTAGE	$V_{out}$		-0.5	11	V
OUTPUT CURRENT	$I_{out}$	SOURCE OR SINK		10	mA
TEMPERATURE	$T_A$	OPERATING	-55	150	°C
	$T_s$	STORAGE ( $V_{cc}=0$ )	-55	165	°C



CAUTION  
ESD SENSITIVITY:  
CLASS 3

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PRO. WPS. 0006 01999  
MICRO SWITCH  
Honeywell Division  
MINIATURE RATIO-METRIC  
LINEAR HALL EFFECT SENSOR  
CATALOG LISTING  
SS496 SERIES CHART 1

THIRD ANGLE PROJECTION  
DO NOT SCALE PRINT  
SCALE: NONE  
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:  
ONE PLACE .010 ±.030  
TWO PLACES .001 ±.015  
THREE PLACES .0001 ±.0005  
ANGLES ±2°  
WEIGHT

DRAWING NUMBER: SS496 SERIES CHART 1  
 OF: 10  
 PAGE: 7  
 REVISED: 10/03/95  
 BY: J.A. HENSELBERG  
 CHECKED: J.C. B. DEC. 28, 1994  
 APPROVED: J.A. HENSELBERG  
 RASTER

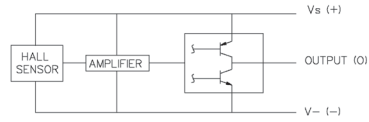
CHARACTERISTICS ARE AT  $V_s=5.00$  WITH 4.7K OUTPUT TO MINUS WITH  $T_A = -40^\circ\text{C}$  TO  $+125^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED

SS496A1

SS496 SERIES CHART 1

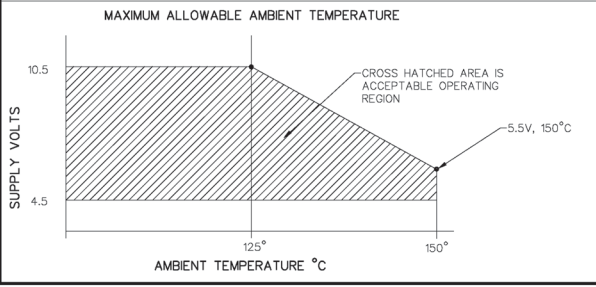
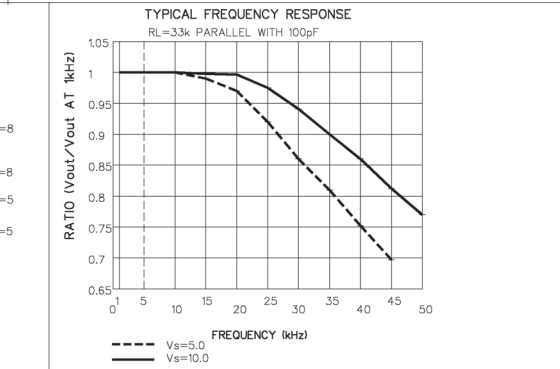
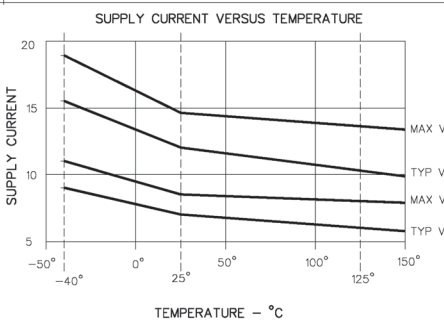
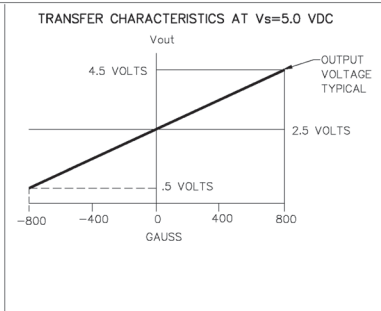
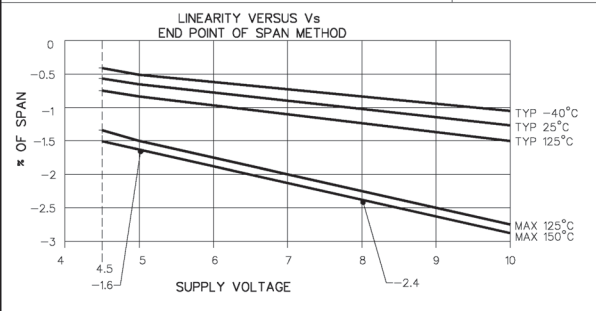
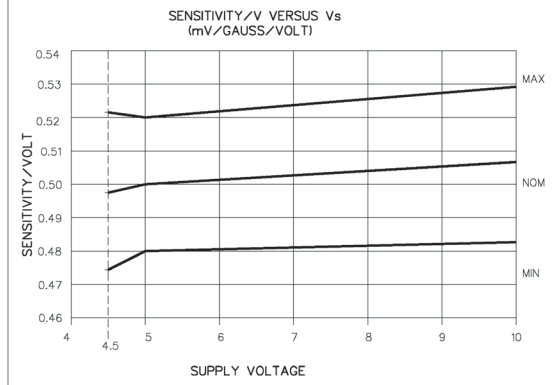
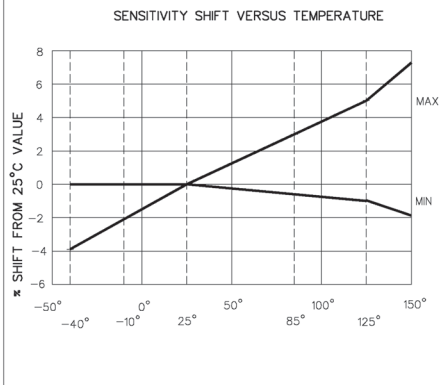
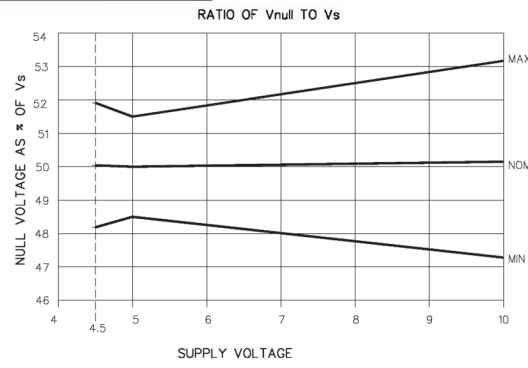
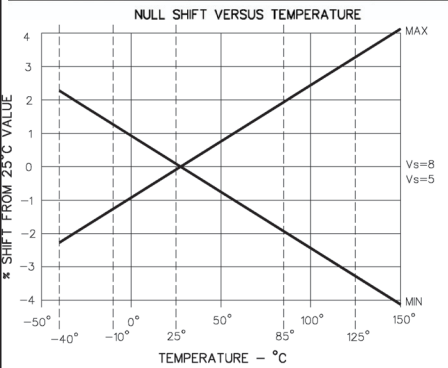
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^\circ\text{C}$	2.425	2.500	2.575	mV/GAUSS
NULL	$T_A = 25^\circ\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^\circ\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA		1.5mA	
SINK	$V_s > 4.5$	.6mA		1.5mA	
SINK	$V_s > 5.0$	1mA		1.5mA	
RESPONSE TIME				3μs	
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.4	.2		VOLTS
VOM +	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					
-B MAX		-750	-840		GAUSS
+B MAX		+750	+840		GAUSS
Vnull DRIFT	$B = 0, T_A = 25^\circ\text{ TO } 125^\circ\text{C}$			$\pm .032$	$\% / ^\circ\text{C}$
Vnull DRIFT	$B = 0, T_A = +125^\circ\text{ TO } +150^\circ\text{C}$			$\pm .064$	$\% / ^\circ\text{C}$
SENSITIVITY DRIFT	$T_A = +25^\circ\text{C TO } +125^\circ\text{C}$			$\pm .05$	$\% / ^\circ\text{C}$
SENSITIVITY DRIFT	$T_A = -40^\circ\text{C TO } +25^\circ\text{C}$			$\pm .06$	$\% / ^\circ\text{C}$
SENSITIVITY DRIFT	$T_A = +125^\circ\text{C TO } +150^\circ\text{C}$			$\pm .08$	$\% / ^\circ\text{C}$
LINEARITY	$B = -6.00 \text{ TO } +6.00$		-1.0	-1.5	$\% \text{ OF SPAN}$
SUPPLY VOLTAGE	$-40^\circ\text{C TO } +125^\circ\text{C}$		4.5	5.0	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	$^\circ\text{C}$

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



ABSOLUTE MAXIMUM CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	$V_{cc}$		-0.5	11	V
OUTPUT VOLTAGE	$V_{out}$		-0.5	11	V
OUTPUT CURRENT	$I_{out}$	SOURCE OR SINK		10	mA
TEMPERATURE	$T_A$	OPERATING	-55	150	$^\circ\text{C}$
	$T_s$	STORAGE ( $V_{cc}=0$ )	-55	165	$^\circ\text{C}$



CAUTION: ESD SENSITIVITY: CLASS 3

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MINIATURE RATIO-METRIC LINEAR HALL EFFECT SENSOR SS496 SERIES CHART 1

THIRD ANGLE PROJECTION  
SCALE: NONE  
DO NOT SCALE PRINT  
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:  
ONE PLACE (L0) ±.030  
TWO PLACES (L00) ±.015  
THREE PLACES (L000) ±.005  
ANGLES ±2°  
WEIGHT

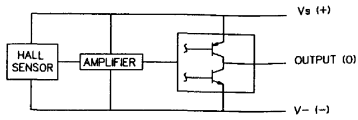
REVISION NUMBER: 10 SS496 SERIES CHART 1  
PAGE: 3 OF 3  
REVISED: 10/85  
DESIGNED BY: J. G. BROWN  
DRAWN BY: R. M. BROWN  
CHECKED BY: J. G. BROWN  
APPROVED BY: J. G. BROWN  
MASTER REDUCED ANSI Y14.5M-1982 APPLIES

CHARACTERISTICS ARE AT  $V_s=5.00$  WITH 4.7K OUTPUT TO MINUS WITH  $T_A=-40^{\circ}\text{C}$  TO  $+125^{\circ}\text{C}$  UNLESS OTHERWISE SPECIFIED

SS496B

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.300	2.500	2.700	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.350	2.50	2.650	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$		1.5mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3 $\mu$ S		
OUTPUT VOLTAGE SWING					
VOM +	-B APPLIED	.4	.2		VOLTS
VOM -	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					GAUSS
-B MAX		-750	-840		
+B MAX		+750	+840		
Vnull DRIFT	$B = 0, T_A = 25^{\circ}\text{ TO } 125^{\circ}\text{C}$	-0.64		+0.64	$\% / ^{\circ}\text{C}$
Vnull DRIFT	$B = 0, T_A = +125^{\circ}\text{ TO } +150^{\circ}\text{C}$	-0.64		+0.64	$\% / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C TO } +150^{\circ}\text{C}$	-0.02		+0.08	$\% / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C TO } +25^{\circ}\text{C}$	-0.02		+0.08	$\% / ^{\circ}\text{C}$
LINEARITY	$B = -600 \text{ TO } +600$	0	-1.0	+1.5	$\%$ OF SPAN
SUPPLY VOLTAGE	$-40^{\circ}\text{C TO } +125^{\circ}\text{C}$	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	$^{\circ}\text{C}$

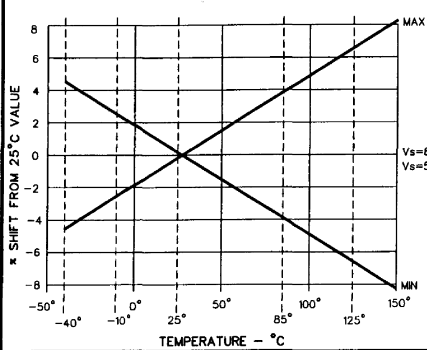
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



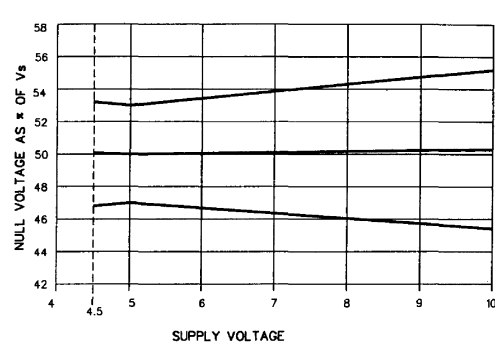
ABSOLUTE MAXIMUM CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	$V_{cc}$		-0.5	11	V
OUTPUT VOLTAGE	$V_{out}$		-0.5	11	V
OUTPUT CURRENT	$I_{out}$	SOURCE OR SINK		10	mA
TEMPERATURE	$T_A$	OPERATING	-55	150	$^{\circ}\text{C}$
	$T_s$	STORAGE ( $V_{cc}=0$ )	-55	165	$^{\circ}\text{C}$

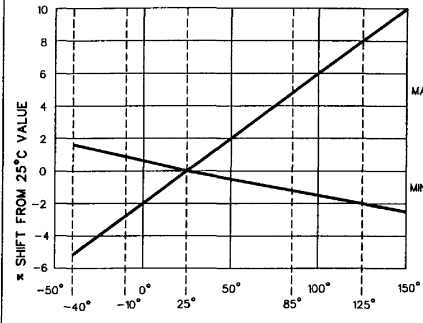
NULL SHIFT VERSUS TEMPERATURE



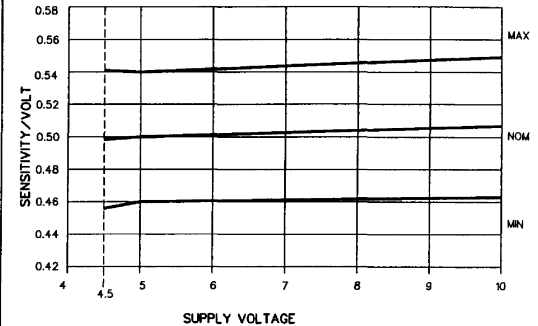
RATIO OF  $V_{null}$  TO  $V_s$



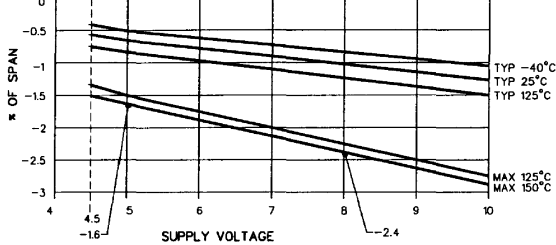
SENSITIVITY SHIFT VERSUS TEMPERATURE



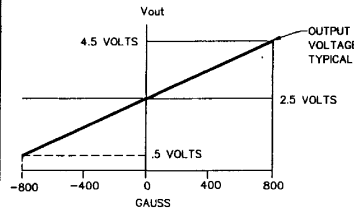
SENSITIVITY/V VERSUS  $V_s$   
(mV/GAUSS/VOLTI)



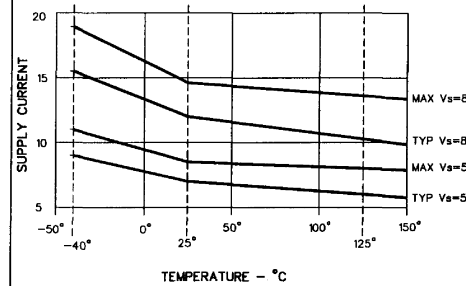
LINEARITY VERSUS  $V_s$   
END POINT OF SPAN METHOD



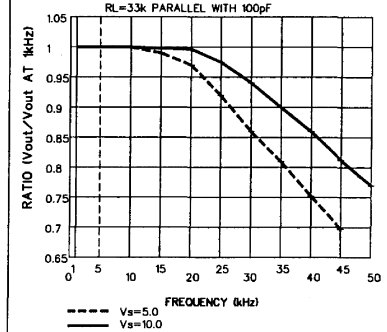
TRANSFER CHARACTERISTICS AT  $V_s=5.0$  VDC



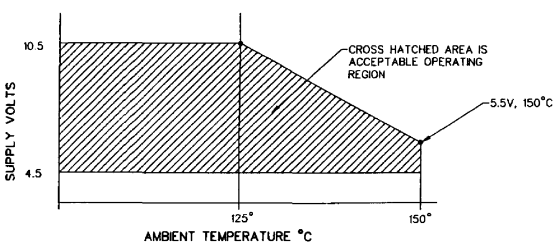
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



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FIG. 1000 CODE 8100

ESD SENSITIVITY CLASS 3

MASTER REDUCED ANSI Y14.5M-1982 APPLIES

MINIATURE RATIO-METRIC  
LINEAR HALL EFFECT SENSOR

SS496 SERIES CHART 1

THIRD ANGLE PROJECTION		
SCALE	NONE	
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
ONE PLACE	(0)	±0.30
TWO PLACES	(00)	±0.05
THREE PLACES	(000)	±0.005
ANGLES		±2'
WEIGHT		



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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