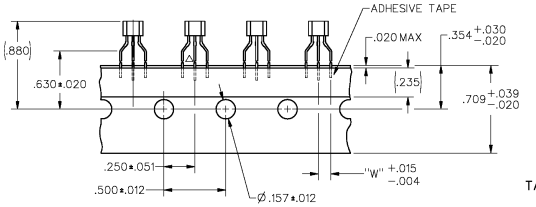
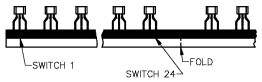
TAPE PACKING OPTIONS

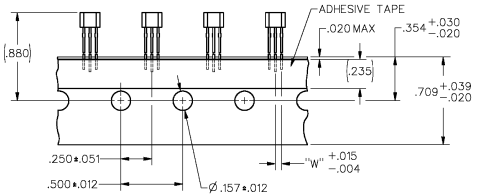


TAPE DIMENSIONS

TAPE STYLE

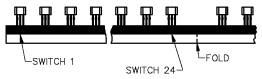
AMMOPACK STYLE "T2" 12 14

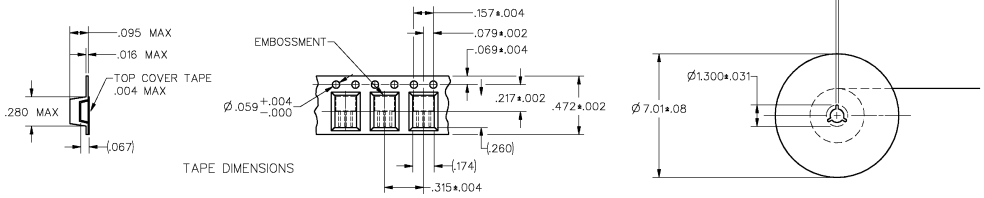




TAPE DIMENSIONS

AMMOPACK STYLE "T3" 12 14





TAPE DIMENSIONS

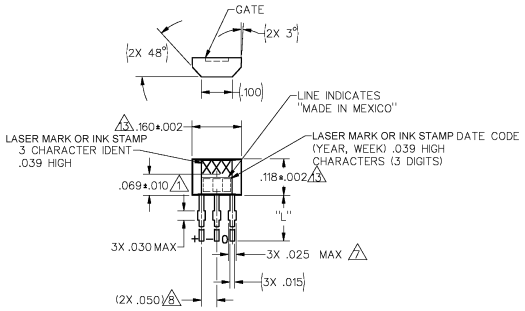
DIRECTION OF FEED FROM REEL

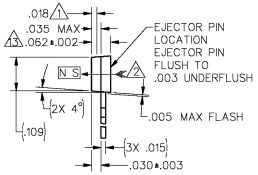
TAPE STYLE "P" 15

NOTES

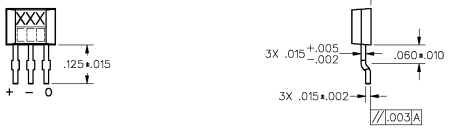
1. CENTERLINE OF HALL CELL
2. THE + MAGNETIC FLUX IS IN THE DIRECTION SHOWN (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)
3. – THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
4. – OUTPUT TYPE – RATIOMETRIC
5. – LEADS 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 PEAK FOR 10 S MAX OR 260°C PEAK FOR 5 S MAX
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 MAXIMUM
14. TAPE AND AMMOPACK PER EIA–468
15. POCKET TAPE PER EIA–481

CATALOG LISTING	TAPE STYLE	DIM "L" ±.015	DIM "W" +.015 −.004	COMMENTS 1
SS496A	NONE	.590	.050	BULK–1000/BAG
SS496A–T2	T2	.590	.100	5000/BOX
SS496A–T3	T3	.590	.050	5000/BOX
SS496A–S	NONE	.125	.050	BULK–1000/BAG
SS496A–SP	P	.125	.050	1000/PACKET TAPE AND REEL
SS496A1	NONE	.590	.050	BULK–1000/BAG
SS496A1–T2	T2	.590	.100	5000/BOX
SS496A1–T3	T3	.590	.050	5000/BOX
SS496A1–S	NONE	.125	.050	BULK–1000/BAG
SS496A1–SP	P	.125	.050	1000/PACKET TAPE AND REEL
SS496B	**NONE**	**.590**	**.050**	**BULK-1000/BAG**
SS496B-F	NONE	.590	.100	BULK-1000/BAG
SS496B-T2	**T2**	**.590**	**.100**	**5000/BOX**
SS496B-T3	**T3**	**.590**	**.050**	**5000/BOX**
SS496B-S	**NONE**	**.125**	.050	**BULK-1000/BAG**
SS496B-SP	**P**	**.125**	**.050**	**1000/PACKET TAPE AND REEL**





OPTIONAL SURFACE MOUNT LEAD STYLE



CAUTION ELECTROSTATIC SENSITIVE DEVICES DO NOT OPEN OR REMOVE COVERS EXCEPT AT A STATIC FREE WORKSTATION
ESD SENSITIVITY: CLASS 3

MASTER REDUCED
ANSI Y14.5M–1982 APPLIES

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FED. MFG. CODE 01929

MICRO SWITCH a Honeywell Division

MINIATURE RATIOMETRIC LINEAR HALL EFFECT SENSOR

CATALOG LISTING: SS496 SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 5 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

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

WEIGHT

DRAWING NUMBER M SS496 SERIES CHART 1 PAGE 1 OF 4 | RELEASE NO. PR-22400 | RELEASED X100795 SS

ISSUE 10 | DATE 21 JUN 10 | DRAWN R.M. | CHECKED J.A.F. | DATE 15 SEP 96 | CHECKED J.A.F. | DATE 15 SEP 96

REVISIONS
10 0034526 PRR 26 OCT 07
9 0063541 21 JUN 10

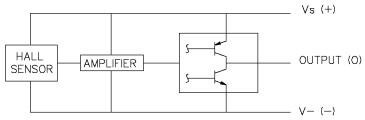
RASTER

SS496A

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

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	2.4	2.5	2.6	mV/GAUSS
NULL	TA = 25°C	2.425	2.50	2.575	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	−750	−840		GAUSS
OPERATION	+B MAX	+750	+840		GAUSS
Vnull DRIFT	B = 0, TA = 25°C TO 125°C	−.048		+.048	% /°C
Vnull DRIFT	B = 0, TA = +125°C TO +150°C	−.064		+.064	% /°C
SENSITIVITY DRIFT	TA=+25°C TO +125°C	−.01		+.05	% /°C
SENSITIVITY DRIFT	TA=−40°C TO +25°C	0		+.06	% /°C
LINEARITY	B = −600 TO +600	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

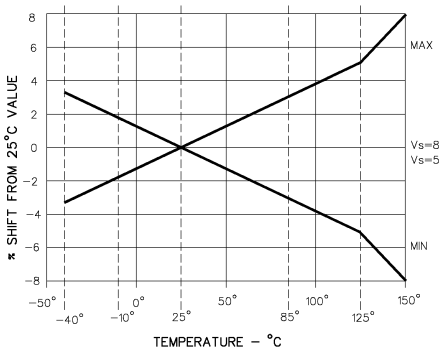
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



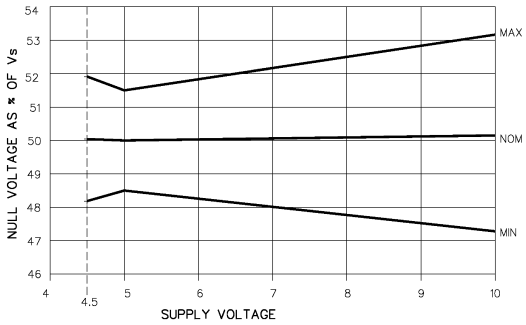
ABSOLUTE MAXIMUM CHARACTERISTICS ⚠

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

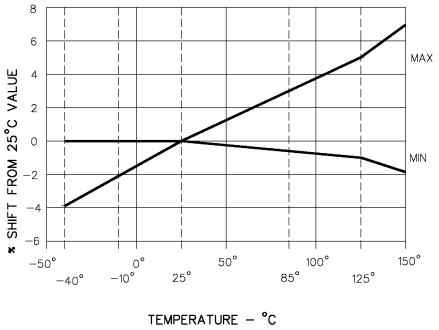
NULL SHIFT VERSUS TEMPERATURE



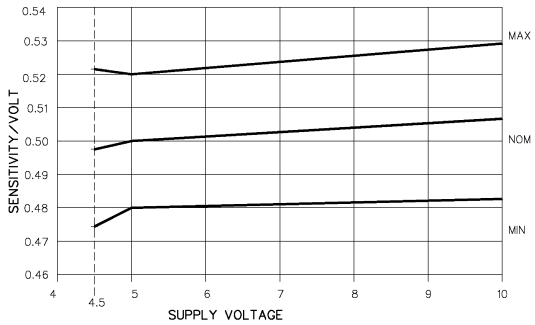
RATIO OF Vnull TO Vs



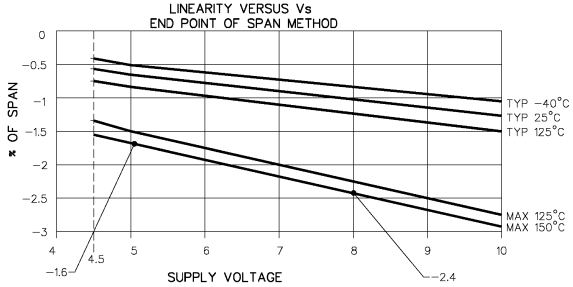
SENSITIVITY SHIFT VERSUS TEMPERATURE



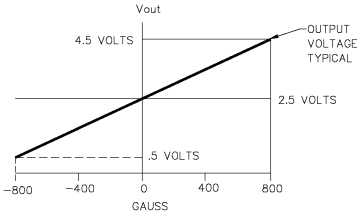
SENSITIVITY/V VERSUS Vs
(mV/GAUSS/VOLT)



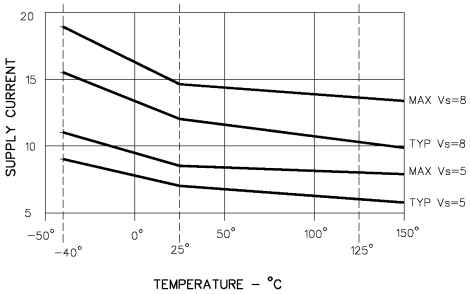
LINEARITY VERSUS Vs
END POINT OF SPAN METHOD



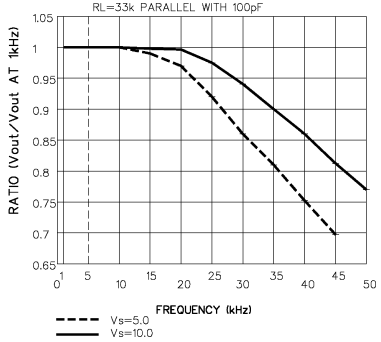
TRANSFER CHARACTERISTICS AT Vs=5.0 VDC



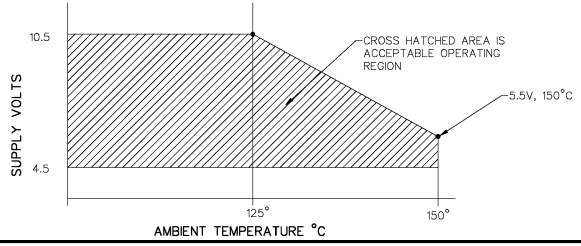
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE
RL=33k PARALLEL WITH 100pF



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



CAUTION ELECTROSTATIC SENSITIVE DEVICES DO NOT OPEN OR HANDLE EXCEPT AT STATIC FREE WORKSTATIONS
ESD SENSITIVITY: CLASS 3

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MINIATURE RATIOMETRIC LINEAR HALL EFFECT SENSOR
CATALOG LISTING: SS496 SERIES CHART 1

THIRD ANGLE PROJECTION
SCALE NONE
DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

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

WEIGHT

SS496 SERIES CHART 1 | PAGE 2 OF 4 | SIZE M | 10 | DRAW NO 91-0473 | RELEASE NO PRR-22400 | RELEASE X100795-SS

REVISIONS				
	00034535	K.A.G.	18 DEC 96	R.M.
	FIRST 20 OCT 97			
	00063540		24 JUN 10	
	21 JUN 10			

RASTER | DRAWN J.A.F. | 5SEP96

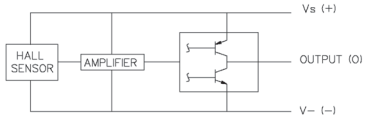
CHARACTERISTICS ARE AT Vs=5.00 WITH 4.7K OUTPUT TO MINUS WITH TA= −40°C TO +125°C UNLESS OTHERWISE SPECIFIED

SS496A1

MSS496 SERIES CHART 1

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	2.425	2.500	2.575	mV/GAUSS
NULL	TA = 25°C	2.425	2.50	2.575	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	−750	−840		GAUSS
OPERATION	+B MAX	+750	+840		GAUSS
Vnull DRIFT	B = 0, TA = 25° TO 125°C	−.032		+.032	% /°C
Vnull DRIFT	B = 0, TA = +125° TO +150°C	−.064		+.064	% /°C
SENSITIVITY DRIFT	TA=+25°C TO + 125°C	−.01		+.05	% /°C
SENSITIVITY DRIFT	TA=−40°C TO +25°C	0		+.06	% /°C
SENSITIVITY DRIFT	TA=+125°C TO +150°C	−.04		+.08	% /°C
LINEARITY	B = −600 TO +600	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

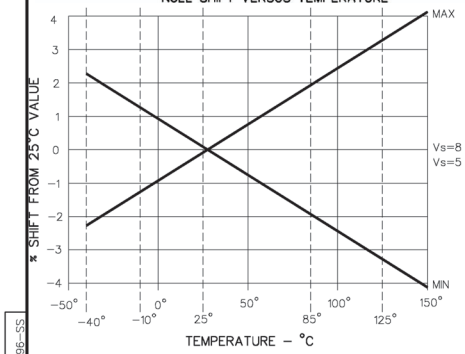
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



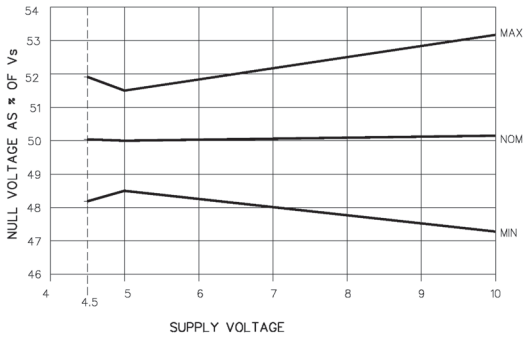
ABSOLUTE MAXIMUM CHARACTERISTICS ⚠

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

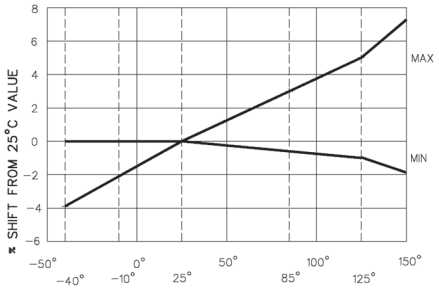
NULL SHIFT VERSUS TEMPERATURE



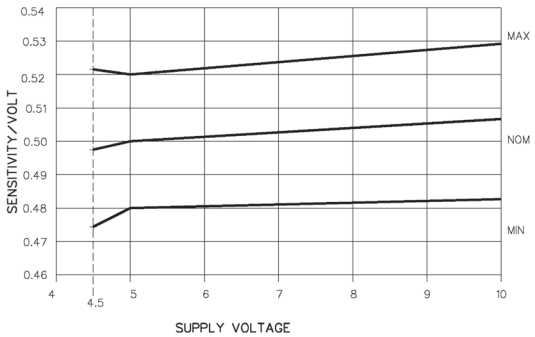
RATIO OF Vnull TO Vs



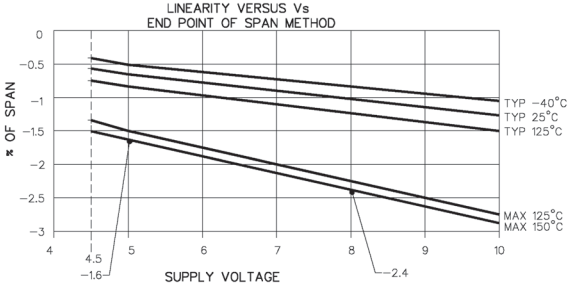
SENSITIVITY SHIFT VERSUS TEMPERATURE



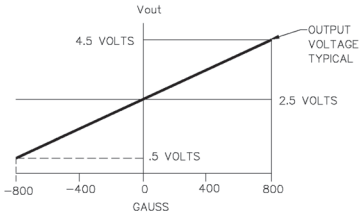
SENSITIVITY/V VERSUS Vs
(mV/GAUSS/VOLT)



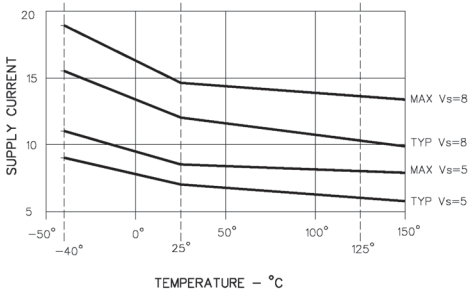
LINEARITY VERSUS Vs
END POINT OF SPAN METHOD



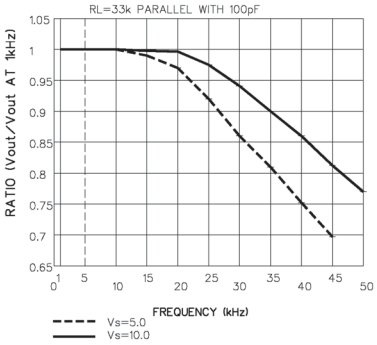
TRANSFER CHARACTERISTICS AT Vs=5.0 VDC



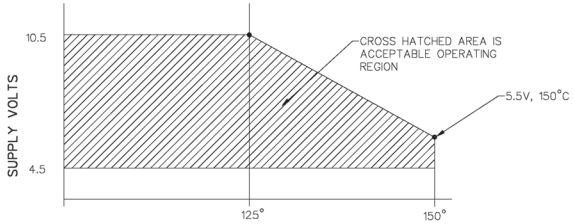
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE
RL=33k PARALLEL WITH 100pF



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



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MINIATURE RATIOMETRIC LINEAR HALL EFFECT SENSOR

CATALOG LISTING
SS496 SERIES CHART 1

THIRD ANGLE PROJECTION
SCALE NONE
DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

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

WEIGHT

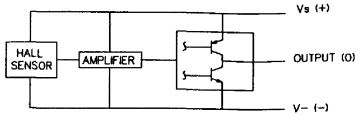
MSS496 SERIES CHART 1
PAGE 3 OF 4
DRAWING NUMBER
RELEASE NO PR-22400
RELEASE X100796-SS
ISSUE 10
DATE JUN 10
REVISIONS
K0034536 PER 20.001.07
K0063540 21 JUN 10
DRAWN J. A. F. 15SEP96
CHECK K. A. G. 18DEC98
DRAWN R. M. 21
RASTER

SS496B

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

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	2.300	2.500	2.700	mV/GAUSS
NULL	TA = 25°C	2.350	2.50	2.650	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	−750	−840		GAUSS
OPERATION	+B MAX	+750	+840		GAUSS
Vnull DRIFT	B = 0, TA = 25° TO 125°C	−.064		+.064	% /°C
Vnull DRIFT	B = 0, TA = +125° TO +150°C	−.064		+.064	% /°C
SENSITIVITY DRIFT	TA=+25°C TO +150°C	−.02		+.08	% /°C
SENSITIVITY DRIFT	TA=−40°C TO +25°C	−.02		+.08	% /°C
LINEARITY	B = −600 TO +600	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

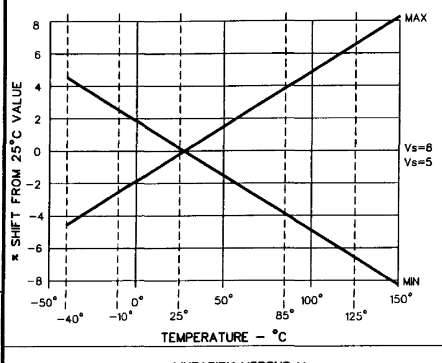
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



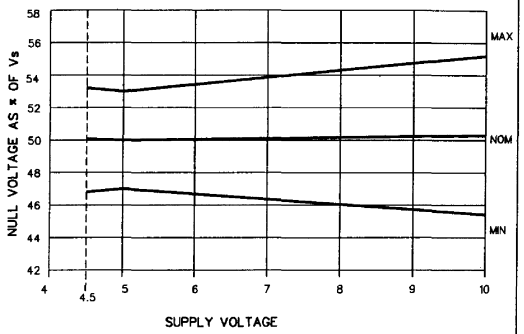
ABSOLUTE MAXIMUM CHARACTERISTICS

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

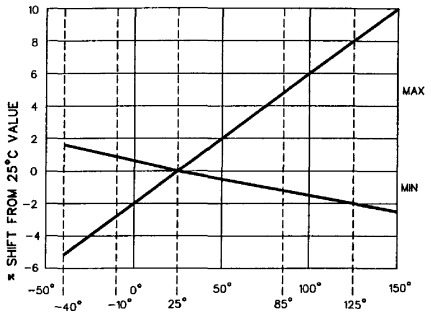
NULL SHIFT VERSUS TEMPERATURE



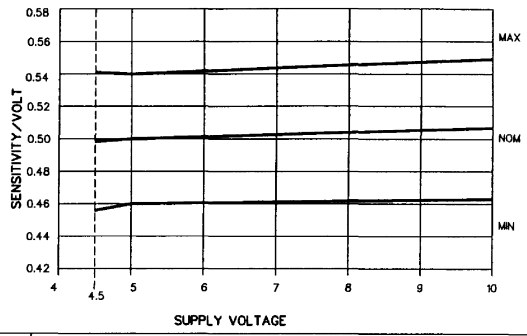
RATIO OF Vnull TO Vs



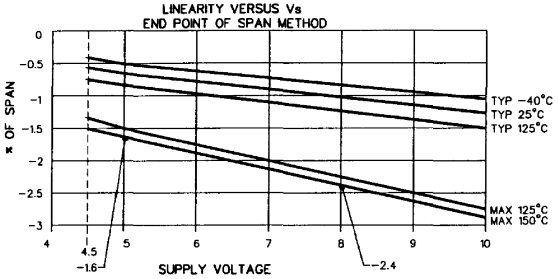
SENSITIVITY SHIFT VERSUS TEMPERATURE



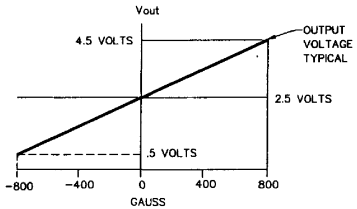
SENSITIVITY/V VERSUS Vs
(mV/GAUSS/VOLT)



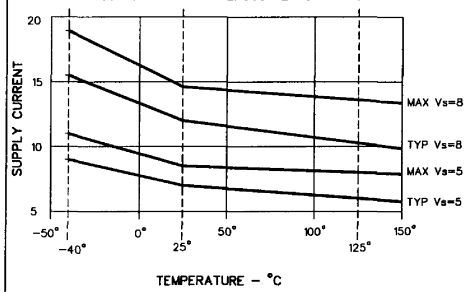
LINEARITY VERSUS Vs
END POINT OF SPAN METHOD



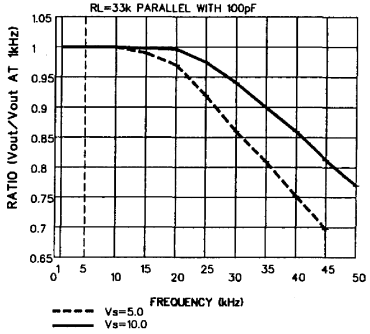
TRANSFER CHARACTERISTICS AT Vs=5.0 VDC



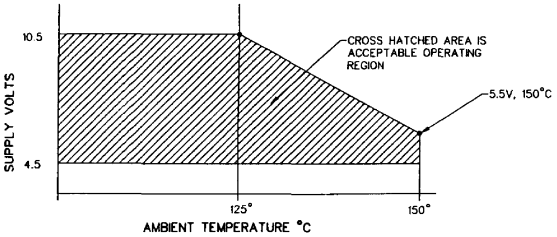
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE
RL=33k PARALLEL WITH 100pF



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



CAUTION ELECTROSTATIC SENSITIVE DEVICES
ESD SENSITIVITY: CLASS 3

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MINIATURE RATIOMETRIC LINEAR HALL EFFECT SENSOR

CATALOG LISTING: SS496 SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

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

WEIGHT

M SS496 SERIES CHART 1 PAGE 10 OF 14 RELEASE NO. PR-24063

REVISIONS			
4	0034835		
3	0001		
2	0001-00		
1	0003540		
0	0001-10		
REV	DATE	BY	
1	10 JUN 99	R.M.	
0	22JUN99	JAE	
REV	DATE	BY	

RASTER TSM 22JUN99

OCEAN CHIPS
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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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