

CATALOG LISTING	TAPE STYLE	DM 1" 1.015	DM .75" .905	DM .5" .675	COMMENTS
55596BA-1	NONE	3.90	.050		BULK-1000/BAG
55596BA-12	T2	5.90	.100		5000/BOX
55596BA-13	T3	5.90	.100		5000/BOX
55596BA-5	NONE	1.25	.050		BULK-1000/BAG
55596BA-5P	P	1.25	.050		1000/PACKET TAPE AND REEL
55596BA-1	NONE	5.90	.050		BULK-1000/BAG
55596BA-12	T2	5.90	.100		5000/BOX
55596BA-13	T3	5.90	.100		5000/BOX
55596BA-5	NONE	1.25	.050		BULK-1000/BAG
55596BA-5P	P	1.25	.050		1000/PACKET TAPE AND REEL
55596BA-1	NONE	5.90	.050		BULK-1000/BAG
55596BA-12	T2	5.90	.100		5000/BOX
55596BA-13	T3	5.90	.100		5000/BOX
55596BA-5	NONE	1.25	.050		BULK-1000/BAG
55596BA-5P	P	1.25	.050		1000/PACKET TAPE AND REEL

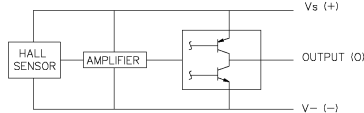
CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A = -40^\circ\text{C}$ TO $+125^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496A

SS496 SERIES CHART 1

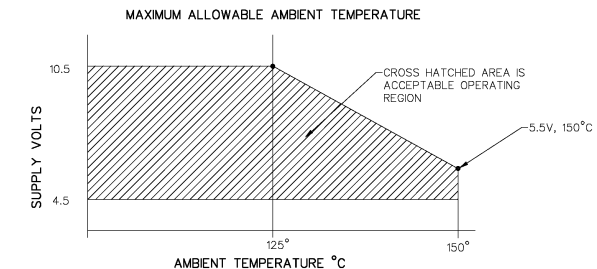
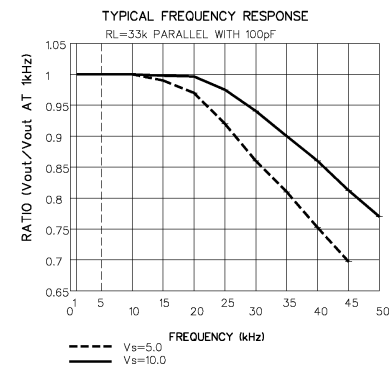
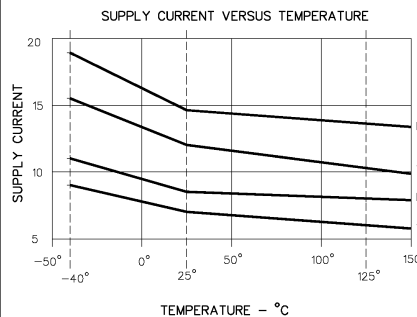
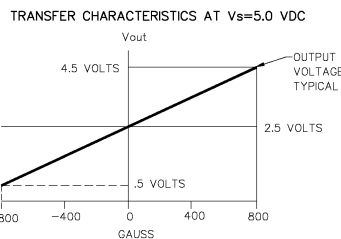
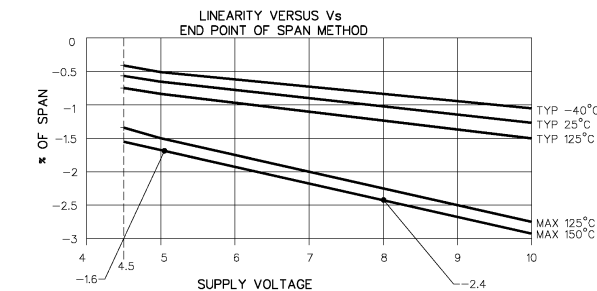
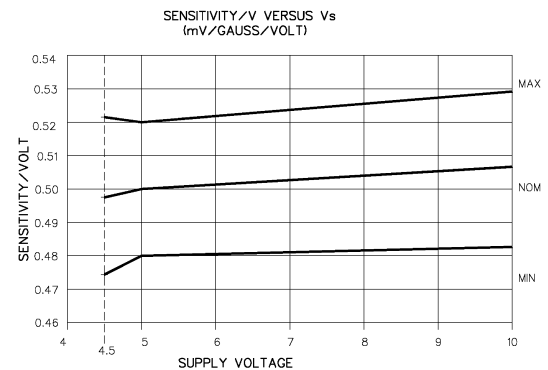
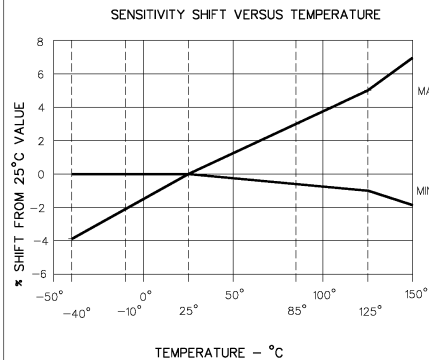
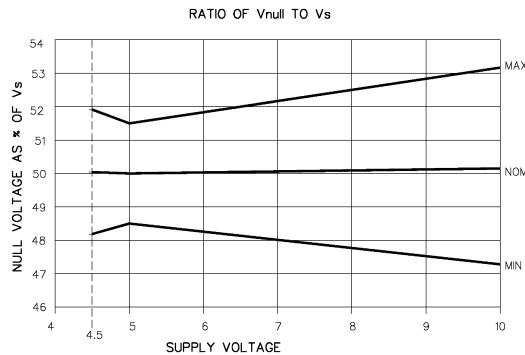
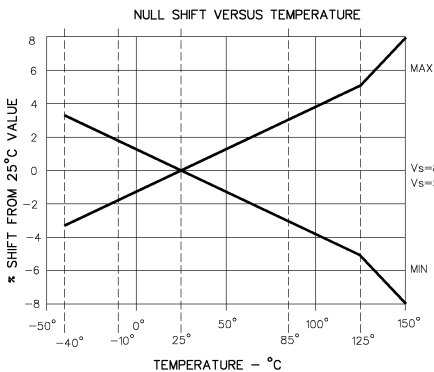
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^\circ\text{C}$	2.4	2.5	2.6	mV/GAUSS
NULL	$T_A = 25^\circ\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^\circ\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$	.6mA	1.5mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
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	$B = 0, T_A = 25^\circ\text{C TO } 125^\circ\text{C}$	-.048		+.048	% / °C
Vnull DRIFT	$B = 0, T_A = +125^\circ\text{C TO } +150^\circ\text{C}$	-.064		+.064	% / °C
SENSITIVITY DRIFT	$T_A = +25^\circ\text{C TO } +125^\circ\text{C}$	-.01		+.05	% / °C
SENSITIVITY DRIFT	$T_A = -40^\circ\text{C TO } +25^\circ\text{C}$	0		+.06	% / °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	°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	10	mA
TEMPERATURE	T_A	OPERATING	-55	150	°C
	T_s	STORAGE ($V_{cc}=0$)	-55	165	°C



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MICRO SWITCH
 a Honeywell Division

MINIATURE RATIOMETRIC
 LINEAR HALL EFFECT SENSOR

SS496 SERIES CHART 1

THIRD ANGLE PROJECTION			
SCALE	NONE		
DO NOT SCALE PRINT			
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE			
ONE PLACE	LOI	±.030	
TWO PLACES	LOOI	±.015	
THREE PLACES	LOOOI	±.005	
ANGLES		± 2°	
WEIGHT			

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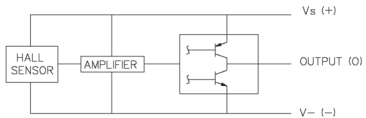
CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A=-40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496A1

SS496 SERIES CHART 1

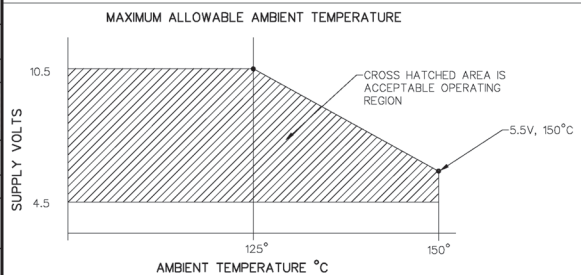
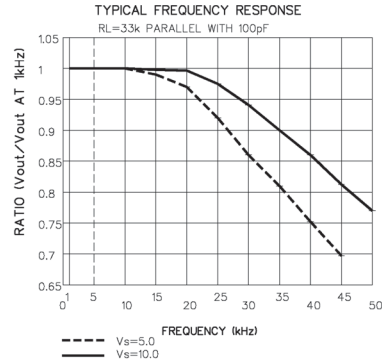
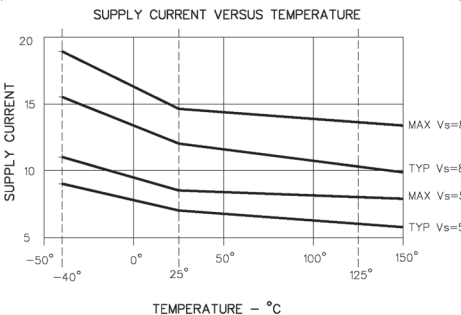
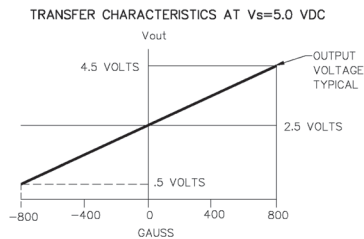
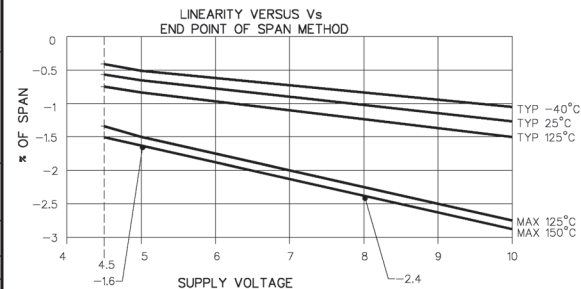
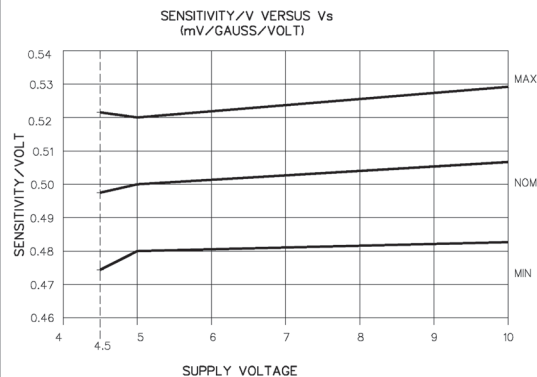
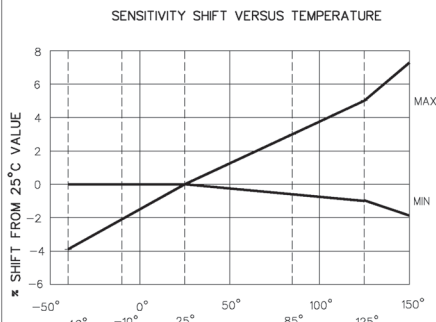
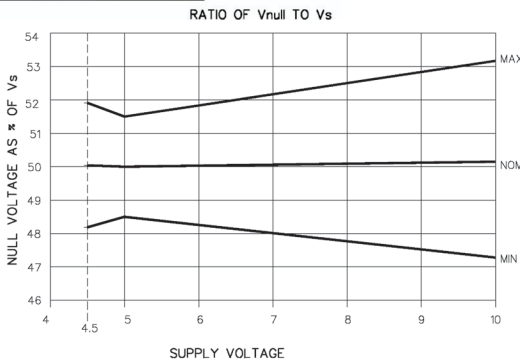
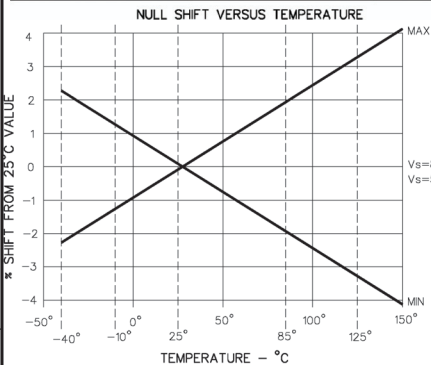
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.425	2.500	2.575	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$	.6mA	1.5mA		
SINK	$V_s > 5.0$	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	$B = 0, T_A = 25^{\circ}\text{C TO } 125^{\circ}\text{C}$	-.032		+.032	% / °C
Vnull DRIFT	$B = 0, T_A = +125^{\circ}\text{C TO } +150^{\circ}\text{C}$	-.064		+.064	% / °C
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C TO } +125^{\circ}\text{C}$	-.01		+.05	% / °C
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C TO } +25^{\circ}\text{C}$	0		+.06	% / °C
SENSITIVITY DRIFT	$T_A = +125^{\circ}\text{C TO } +150^{\circ}\text{C}$	-.04		+.08	% / °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	°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



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REV. 4/78, CODE 91009

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MINIATURE RATIO-METRIC
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 (L)	±.030
TWO PLACES (LO)	±.015
THREE PLACES (LOO)	±.005
ANGLES	±2°
WEIGHT	

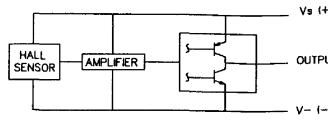
CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A=-40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496B

SS496 SERIES CHART 1

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	$V_s > 4.5$	6mA	1.5mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3 μ 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	-B MAX	-750	-840		GAUSS
	+B MAX	+750	+840		GAUSS
Vnull DRIFT	$B = 0, T_A = 25^{\circ}\text{C TO } 125^{\circ}\text{C}$	-0.64		+0.64	$\times / ^{\circ}\text{C}$
Vnull DRIFT	$B = 0, T_A = +125^{\circ}\text{C TO } +150^{\circ}\text{C}$	-0.64		+0.64	$\times / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C TO } +150^{\circ}\text{C}$	-0.02		+0.08	$\times / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C TO } +25^{\circ}\text{C}$	-0.02		+0.08	$\times / ^{\circ}\text{C}$
LINEARITY	$B = -600 \text{ TO } +600$	0	-1.0	-1.5	$\times \text{ OF SPAN}$
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	$^{\circ}\text{C}$

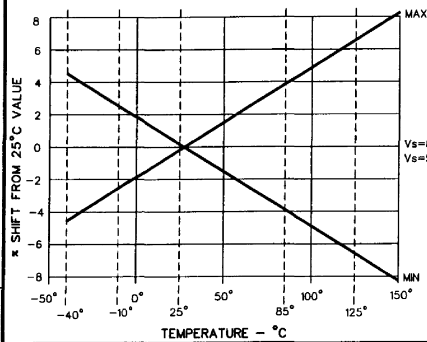
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



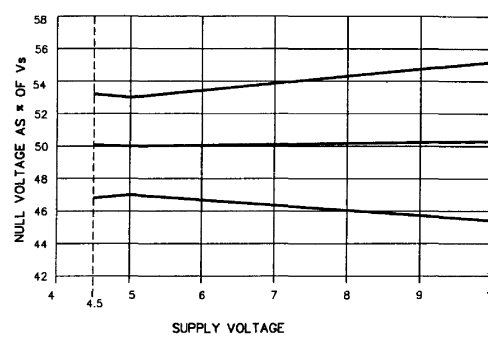
ABSOLUTE MAXIMUM CHARACTERISTICS

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	$^{\circ}\text{C}$

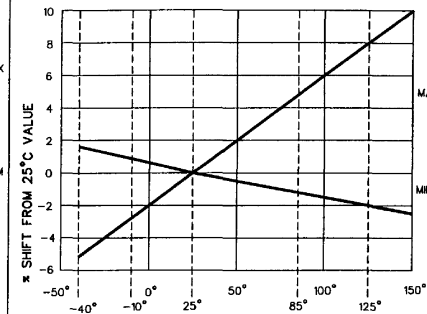
NULL SHIFT VERSUS TEMPERATURE



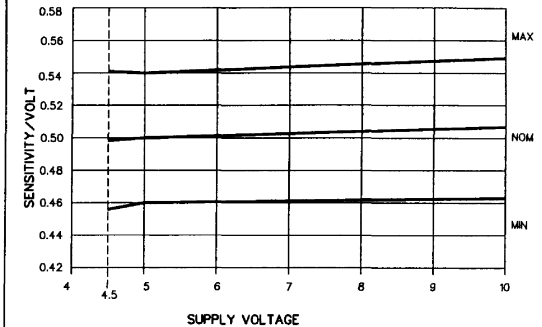
RATIO OF V_{null} TO V_s



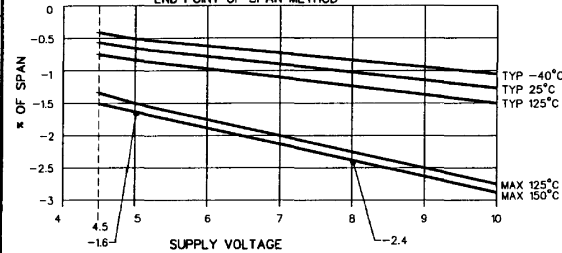
SENSITIVITY SHIFT VERSUS TEMPERATURE



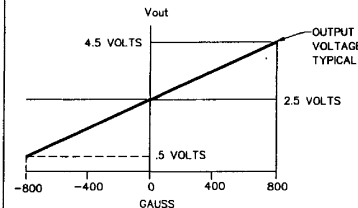
SENSITIVITY/V VERSUS V_s
(mV/GAUSS/VOLT)



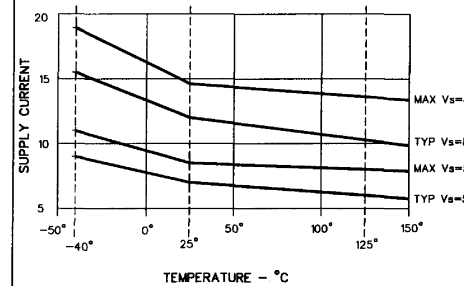
LINEARITY VERSUS V_s
END POINT OF SPAN METHOD



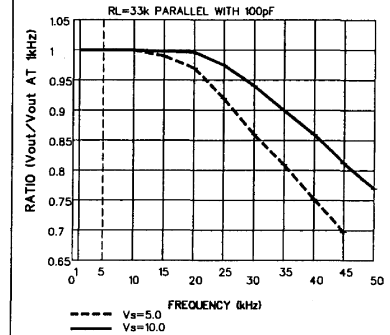
TRANSFER CHARACTERISTICS AT $V_s=5.0$ VDC



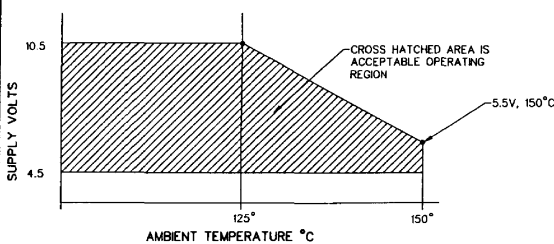
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



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MINIATURE RATIO-METRIC
SS496 SERIES CHART 1

THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE	(0) ± 0.030
TWO PLACES	0.001 ± 0.015
THREE PLACES	0.0001 ± 0.005
ANGLES	$\pm 2^{\circ}$
HEIGHT	



**Стандарт
Электрон
Связь**

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С нами вы становитесь еще успешнее!

Наши контакты:

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Электронная почта: sales@st-electron.ru

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помещение 100-Н Офис 331