

2					1				
				RE V	DOCUMENT 0014722		GED BY D4OCT05	CHECK VK	
NOTES <u>1</u> CENTERLINE OF HAI <u>2</u> THE + MAGNETIC F THAT THE DIRECTIC THE SOUTH POLE C 3 - THE DEVICE CANNO	FLUX IS IN T ON OF THE I OF THE MAG	EXTERNAL GNET)	FLUX OF	N (THIS AS A MAGNET	SUMES THE	CONVENT	ION		D
4 - OUTPUT TYPE - F 5 - LEADS MUST BE A ASSURE THAT THE 6 - PCB WAVE SOLDER 250°C TO 260°C → BURRS ARE ALLOW LEAD REFERENCE D BUMENSION REFERS 9 - SOME COMBINATION MITHSTAND WITHOU ARE NOT GUARANT	DEQUATELY LEADS ARE RING GUIDEL SOLDERING /ED ONLY IF DIMENSIONS TO THE LO NS OF BASIG M RATINGS / JT DAMAGE	Y SUPPORT NOT STR INES ARE TEMPERA FULL LEN DO NOT IN OCATION OF C LISTING ARE THE E TO THE D	RESSED WI AS FOLLO TURE 3 SE NGTH OF L ICLUDE SO F LEAD CE AND PACK EXTREME L EVICE. EL	THIN THE F WS: ECONDS M EADS WILL LDER THIC NTERLINES AGE OPTIC IMITS THE ECTRICAL	PLASTIC AX SOLDERIN PASS THRC KNESS AS THE EX DNS MAY NO DEVICE WILL AND MAGNET	G TIME DUGH Ø.02 IT THE PL T BE AVA MOMENT/ TIC CHAR/	23 HOLE. .ASTIC PAO ILABLE ARILY ACTERISTIC	S	
THE DEVICE NECES APPLICATIONS HAV USE A TAPE PACK AMMOPACK STYLE BE REFERRED TO A MOLDED PART DIME LIMITED TO .005 MA TAPE AND AMMOPA TAPE AND AMMOPA DOCKET TAPE PER	SARILY OPE S MAY BE D ING A CRITIC AGING OPTIC "T2" & "T3 AS "FAN FOI INSIONS DO AXIMUM ACK PER EIA	ERATE AT DETERIORA CAL LEAD DN 5". 24 SW LD" NOT INCLU	ABSOLUTE TED ON SO STRAIGHT	MAXIMUM DME UNITS NESS REQU TWEEN FC	RATINGS BY BULK PA JIREMENT SH LDS, SKIP 1	ACKAGING. OULD			С
CATALOG LISTING	TAPE STYLE	DIM "L"	DIM "W"	COMME	NTS 🔬				₽
SS491B SS491B-F	NONE	.590	.050		00/BAG				
SS491B-T2	NONE T2	.590	.100	5000/I					
SS491B-T3	T3	.590	.050	5000/1					
SS491B-S	NONE	.125	.050	BULK-10	DOO/BAG				
SS491 B-SP	Р	.125	.050	1000/P	ACKET TAP	PE AND F	REEL		
									В

 0.015
 THIS DRAWING IS NOT TO BE COPIED OR USED
 MINIATORE RATIOMETRIC

 0.005
 WITHOUT THE PERMISSION OF HONEYWELL.
 LINEAR HALL EFFECT SENSOR

 1
 INTERPRET PER ANSI Y14. 5M-1982
 SIZE
 TYPE

 0THER HONEYWELL ENGINEERING
 STANDARDS MAY APPLY
 SIZE
 TYPE

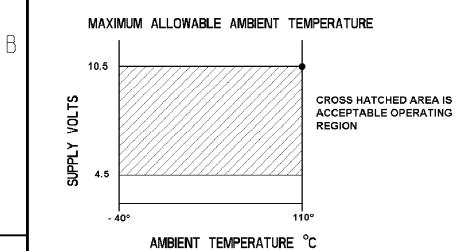
 IECTION
 RASTER
 SCALE
 NTS
 SHEET

 2
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REV

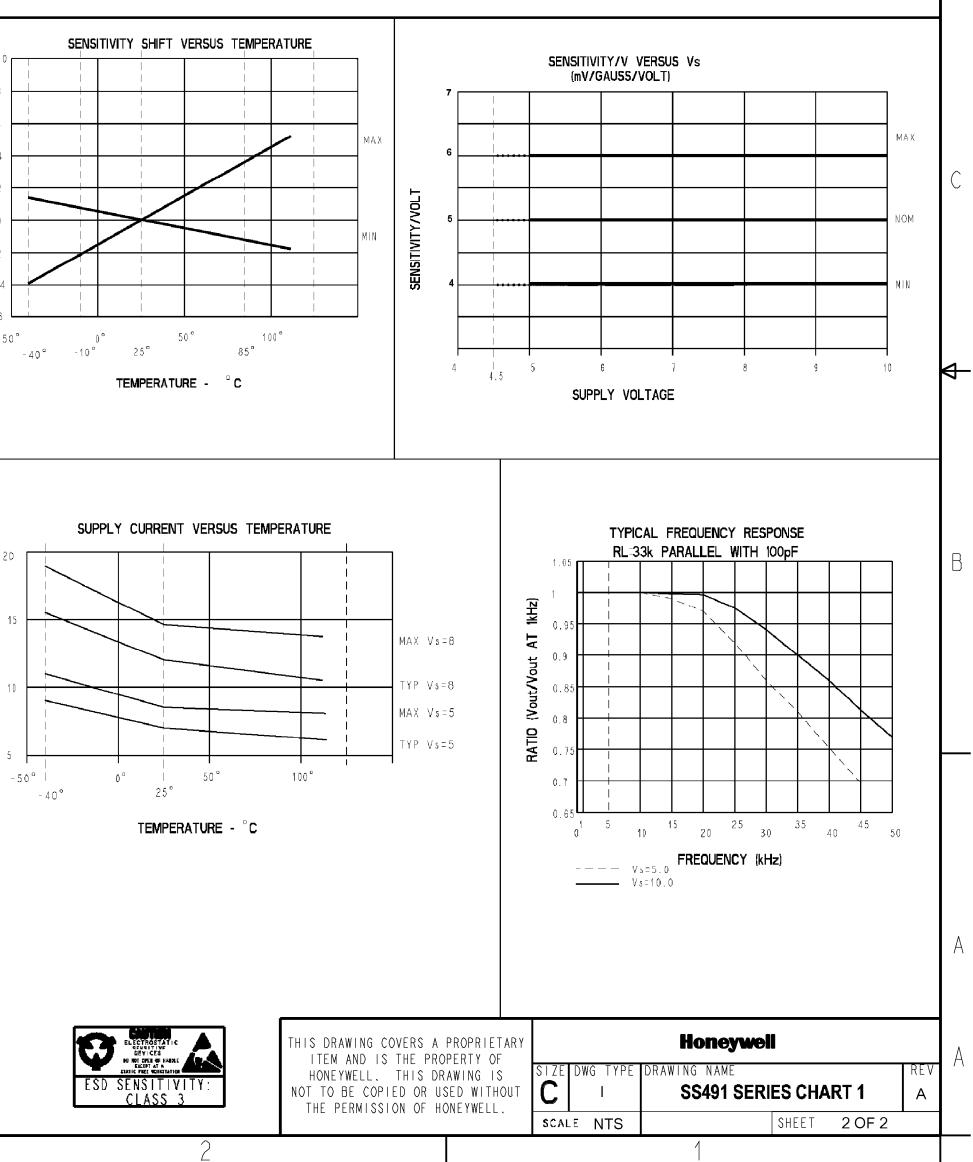
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	FO-55112-A	4						3		$\mathbf{\Phi}$
	CHARACTERISTICS A TA = -40°C TO +85°C l					AINUS AND				
	PARAMETER		CONDITIONS		MIN	TYP	MAX	UNITS		
	SENSITIVITY	+	TA = + 25° C		40	50	60	mV/GAUSS		
	NULL		$T_A = + 25^{\circ} C$		4	5	6	VOLTS		
	SUPPLY CURRENT				┟──┸──	18	30	mA		
			Vs > 4.5		1	1.5		mA	BLOCK DIAGRA	AM CURRENT SINKIN
	SI		Vs > 4.5		6	1.5	1	mA	DECONDIACIO	
	SI		Vs > 5.0		1	1.5		mA		
D	RESPONSE TIME		13 0.0			3		uS		,
		м – 🗍	- B APPLIED			.2		VOLTS		
		DM +	+ B APPLIED		Vs4	Vs2		VOLTS	HALL	
	B LIMITS FOR LINEAR		- B MAX		• 50	- 60		GAUSS	SENSOR	
	OPERATION	F	+ B MAX		+ 50	+ 60		GAUSS		
		ł-		<u> </u>		+ 00				د ز
			$B = 0, TA = -40^{\circ} C^{\circ}$		06	_	+ .08	% / °C		
	SENSITIVITY DRIFT		TA = - 40° C	10 + 85° C	02		+.06	%/°C	L	
	LINEARITY		B = - 60 to + 60		0	- 1.0	- 1.5	% OF SPAN		
	SUPPLY VOLTAGE	[TA = - 40° C	TO + 85° C	4.5	10.0	10.5	VOLTS		
	OPERATING TEMP				- 40		+ 85	°C		
		i VERSUS	TEMPERATURE	_			RATIO OF	Vnull TO Vs		
	8				70				МА	8
									L MA	1
	0			МАХ	(A					6
C	4				<mark>х</mark> 60					
С	щ. 4				% 0F Vs					
С					S % OF					
С					− − − − − − − − − −				NO	
С					− − − − − − − − − −					
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С					− SA 20 × OF					
С	HIET FROM 25°C				VOLTAGE AS % OF				NO	SHIFT FROM 25°C VALUE
С					NULL VOLTAGE AS % OF				NO	M SHIFT FROM 25°C VALUE C C C C C C C C M C C C M C C C C C C C C C C C C C
С	SHIFT FROM 25°C				NULL VOLTAGE AS % OF 00 00 30				NO	SHIFT FROM 25°C VALUE
C	SHIFT FROM 25°C				NULL VOLTAGE AS % OF		6		NO	M SHIFT FROM 25°C VALUE C C C C C C C C M C C C M C C C C C C C C C C C C C
C	SHIFT FROM 25°C	50°	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		NULL VOLTAGE AS % OF 00 00 30		6 SUPPLY VOL		NO	M SHIFT FROM 25°C VALUE C C C C C C C C M C C C M C C C C C C C C C C C C C



А

TRANSFER CHARACTERISTICS AT Vs = 10.0 Vdc Vout OUTPUT - VOLTAGE TYPICAL 8.0 V 5.0 V 2.0 V - 60 - 30 + 30 + 60 0 GAUSS



20

CURRENT

SUPPLY

4

OR SOURCING OUTPUT

— Vs (+) - OUTPUT (O) GND (--)

ABSOLUTE MAXIMUM CHARACTERISITICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	Vcc		-0.5	11	۷
OUTPUT VOLTAGE	Vout		-0.5	11	٧
OUTPUT CURRENT	lout	SOURCE OR SINK		10	mA
TEMPERATURE		OPERATING	-40	110	°C
	Ts	STORAGE (Vcc=0)	-55	165	°C

Mouser Electronics

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