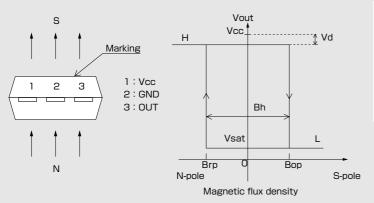


Shipped in bulk(500pcs/Bag)

EW-502 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Bipolar Hall Effect Latch	Supply Voltage 4.5~18V	Hall Element Continuous Excitation	Low Sensitivity Bop:10mT	Output With pull-up Resistor	SIP	
Notice: It is requested to	o read and accept "IMPOF	TANT NOTICE" written o	n the back of the front co	ver of this catalogue.		

Operational Characteristics





●Absolute Maximum Ratings (Ta=25℃)

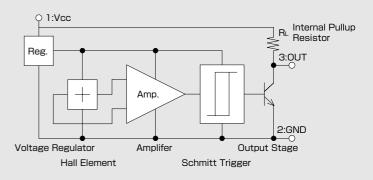
Item	Symbol	Limit	Unit	
Supply Voltage	V _{CC}	18 ^(*)	V	
Output H Voltage	V _{o(off)}	V _{cc}	V	
Output L Current	Isink	15	mA	
Operating Temperature Range	Topr	−20 ~ 115	°C	
Storage Temperature Range	Tstg	−40 ~ 125	Ĵ	

(*) Please refer to Supply Voltage Derating Curve.

●Magnetic and Electrical Characteristics (Ta=25°C)

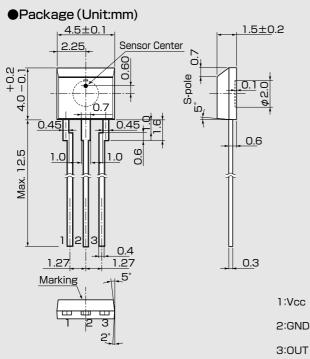
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit	
Supply Voltage	V _{CC}		4.5	12	18	V	
Operating Point	B _{OP}	V _{CC} =12V	5		20	mT	
Release Point	B _{rp}	V _{CC} =12V	-20		-5	mT	
Hysteresis	Bh	V _{CC} =12V	10			mT	
Output Down Voltage	Vd	V _{CC} =12V,OUT"H"			20	mV	
Output Saturation Voltage	V _{sat}	V _{CC} =12V,OUT"L"			0.4	V	
Supply Current	Icc	V _{CC} =12V,OUT"H"			8	mA	
Internal Load Resistance	RL		7		13	KΩ	
1 [mT] =10 [Gauss]							

Functional Block Diagram



•Please be aware that our products are not intended for use in life support equipment, devices, or systems. Use of our products in such applications requires the advance written approval of our sales staff.

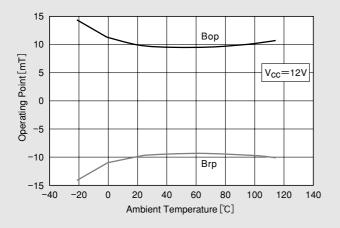
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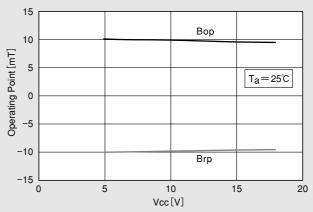
Supply Voltage 20 18 16 14 Supply Voltage [V] 12 10 8 6 4 2 0 _40 100 -20 0 20 40 60 80 120 Ambient Temperature [°C]

Note) The sensor center is located within the ϕ 0.3mm circle.

Temparature Dependence of Bop. Brp



Supply Voltage Dependence of Bop. Brp



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