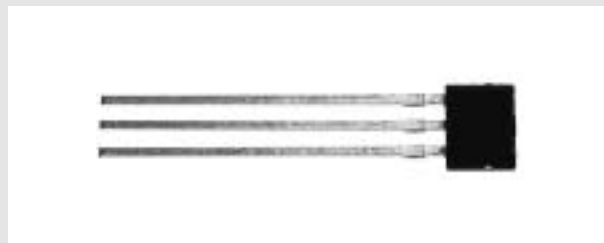
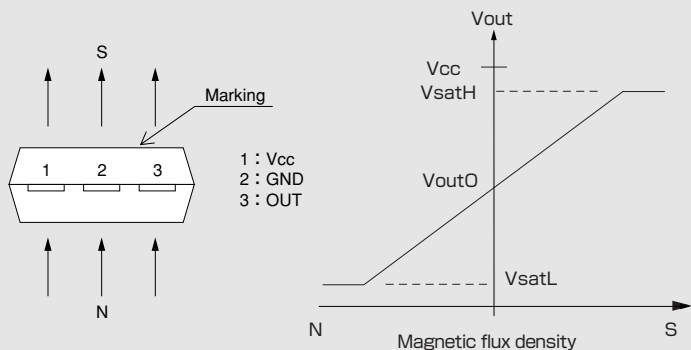


EQ-711L

Shipped in bulk(500pcs/Pack)

EQ-711L is composed of an InAs Quantum Well Hall Element and a signal processing IC chip in a package
 Notice:It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

●Operational Characteristics

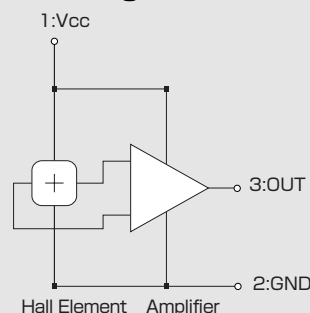


●Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limit	Unit
Supply Voltage	V _{CC}	6	V
Output Current	I _{out}	±1.2 ^(*)	mA
Operating Temperature Range	T _{opr}	-30 ~ 100	°C
Storage Temperature Range	T _{stg}	-40 ~ 125	°C

(*) V_{CC}=5V

●Functional Block Diagram



●Magnetic and Electrical Characteristics (Ta=25°C Vcc=5V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	V _{CC}		3	5	5.5	V
Supply Current	I _{CC}			9	12	mA
Offset Voltage	V _{out0}		2.35	2.5	2.65	V
Magnetic Sensitivity	V _H	B=25mT	50	65	80	mV/mT
Output Saturation Voltage 1 ^(*)	V _{satH}	I _{out} =-0.5mA	V _{CC} -0.3		V _{CC}	V
Output Saturation Voltage 2 ^(*)	V _{satL}	I _{out} =0.5mA	0		0.3	V
Output Bandwidth ^(*)	f _T	10% decrease frequency		100		kHz
Response Time ^(*)	T _r	90% arrival		3	5	μsec
Temp. coefficient of V _H ^(**)	αV _H	The maximum error from room temperature	-5	0	5	%
Temp. coefficient of V _{out0} ^(**)	αV _{out0}	Ta=-30~100°C least squares approximation	-0.5	0	0.5	mV/°C

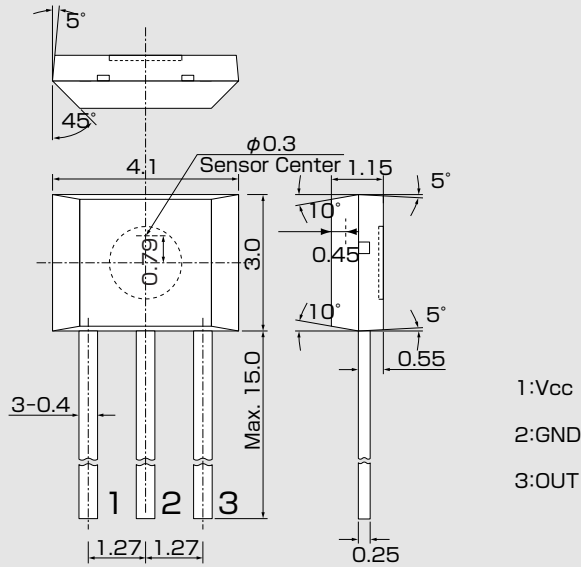
(*) : design targets

1 [mT]=10 [Gauss]

(**) : for reference only

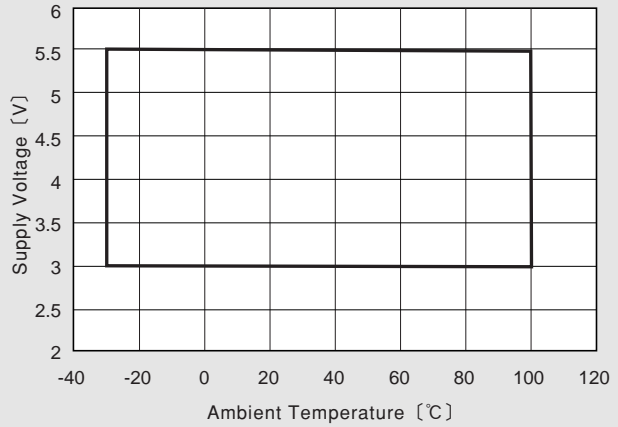
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Certain applications using semiconductor devices may involve potential risks of personal injury, property damage, or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such
- This product contains gallium arsenide(GaAs).Handling and discarding precautions required.

●Package (Unit:mm)

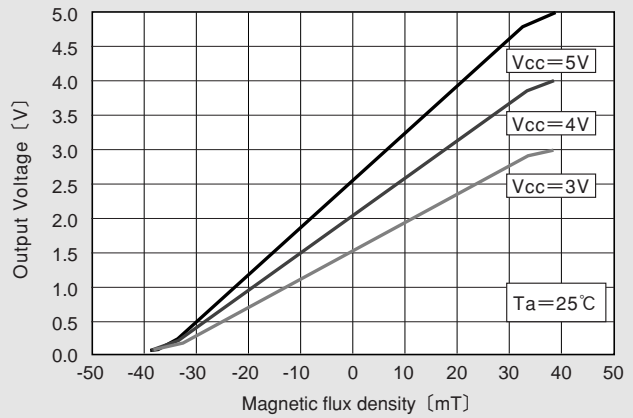


※The sensor senter is located within the $\phi 0.3$ mm circle.

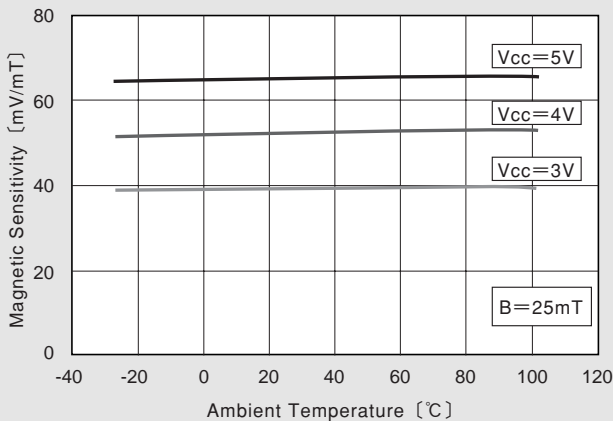
●Supply Voltage



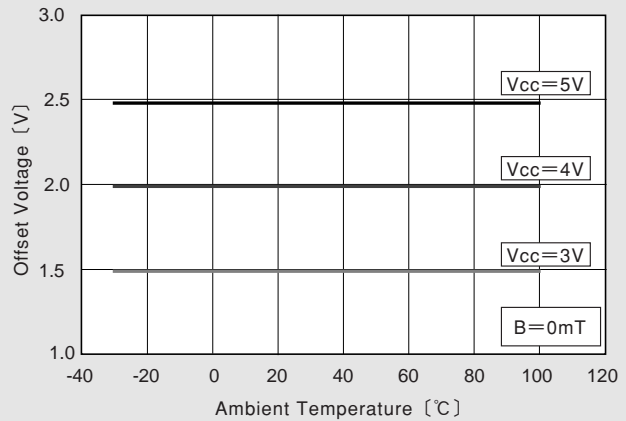
●Operational Characteristics



●Temperature dependence of VH



●(For reference only) Temperature dependence of Vout0



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ASAHI KASEI EMD CORPORATION

Headquarters

1-23-7 Nishi-Shinjuku, Shinjuku-ku, Tokyo 160-0023, Japan

TEL : +81-3-6911-2800 FAX : +81-3-6911-2815

Osaka Office

1-2-6 Dojimahama Kita-ku, Osaka 530-8205, Japan

TEL. +81-6-6347-3133 FAX. +81-3-6911-2815

URL <http://www.asahi-kasei.co.jp/ake/en/>

Europe Office

Market House, 19/21 Market Place, Wokingham, Berkshire, RG40 1AP, U.K.

TEL : +44-118-979-5777 FAX : +44-118-979-7885

URL <http://www.akm.com/>

Shanghai Office

Room 2321, Shanghai Central Plaza, 381 Huaihai Zhong Road, Shanghai 200020, China

TEL. +86-21-6391-6111 FAX. +86-21-6391-6686

URL <http://www.akm.com/>

Seoul Office

8th fl., KTP B/D, 27-2 Yoido-dong, Youngdungpo-gu, Seoul 150-742, Korea

TEL. +82-2-3775-0990 FAX. +82-2-3775-1991

AKM Semiconductor, Inc

Western US Sales

1731 Technology Drive Suite 500 San Jose, CA 95110, USA

TEL. +1-408-436-8580 FAX. +1-408-436-7591

Eastern US Sales

629 Bamford Road Cherry Hill, NJ 08003, USA

TEL. +1-856-424-7211 FAX. +1-856-424-7344

URL <http://www.akm.com/>

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