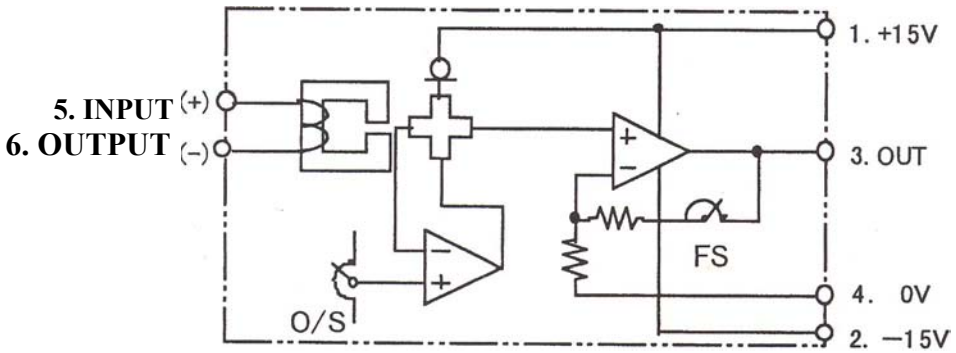
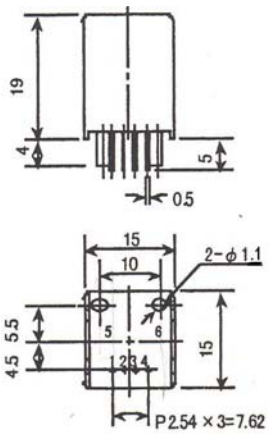
Subminiature DC Current Hall Amp Sensor
HPS-25-AP

1. Circuit Diagram/Outward Dimensions:





2. Assembly parts / Standard:

Part	*Material*	*Hard-flammability Standard*
Case	PBT resin(20% of glass contained)	UL94 V-0
Bobbin	PBT resin(20% of grass contained)	UL94 V-0
Core	Permalloy	----------
Winding	2UEW-Φ1.8	----------
Hall element	GaAs Hall element	----------

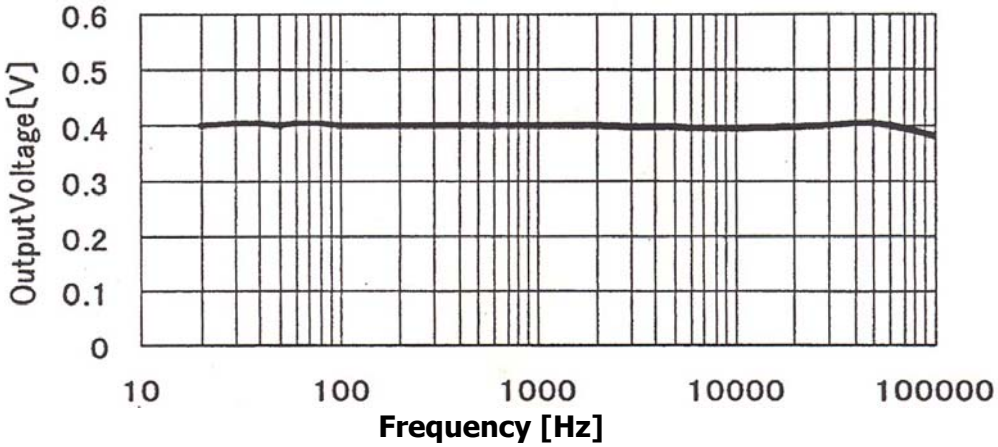
3.Pin Configuration

No.1	+15V
No.2	- 15V
No.3	Output
No.4	GND
No.5	Input (+)
No.6	Input (-)

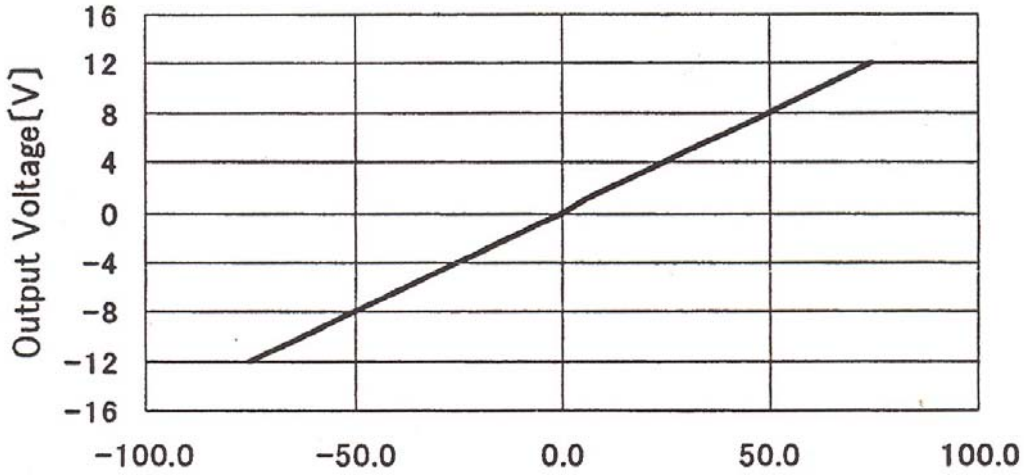
4. Specifications:

Continuous Rated Current	±25A
Non-saturated Max. Current	±75A
Output Voltage	±4V /Rated Current, ±12V/Max.Current
Residual Voltage	within ±30mV (at no load)
Noise Level	20mVp-p or less (at no load)
Output Accuracy/Linearity	within±1% Full Scale
Response time	3μ sec or less (at di/dt=FS/2μsec)
Output Valtage Temp.Coefficient	±0.1%/°C
Control Power Supply	±15V±5% (25mA Typ.) Split P/S
DC Resitance of Primary Winding	0.4mΩ
Max.Allowable Pulse Current	Rated Current x 10 times for 50msec
Dielectric Strength	AC2000V/1 min (Between Primary winding/Control terminals)
Insulation Resistance	≧DC500V/500MΩ (Between Primary winding/Control terminals)
Operating Temp.	-20˚C~+75ºC, ≦85%RH, No condensation
Storage Temp.	-30ºC~+90ºC, ≦85%, No condensation
Weight	7g

HPS-25-AP : Frequency Characteristics

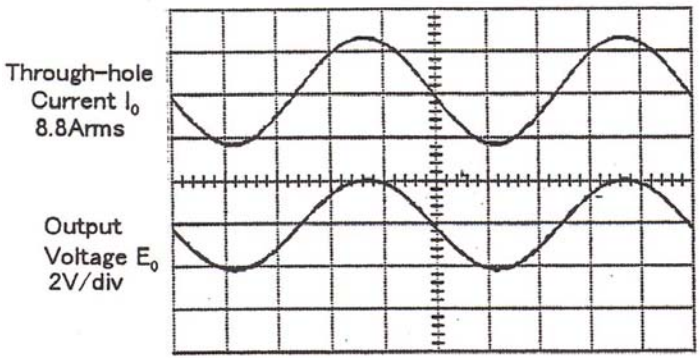


HPS-25-AP : Input-Output Characteristics



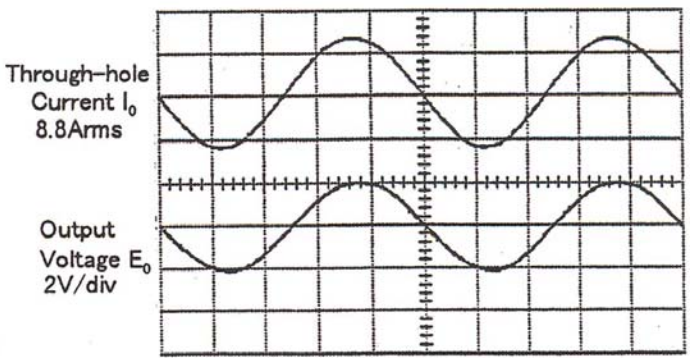
HPS-25-AP : Output Voltage Responsibility

[2KHz Sine Wave]



100 µs/div

[20KHz Sine Wave]



10 µs/div