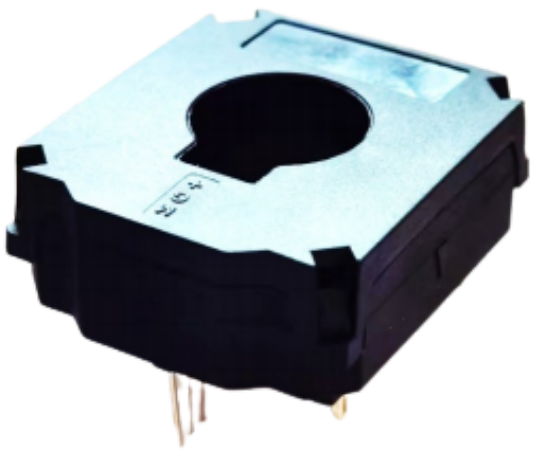
Automotive Current Sensor ASIC Chip Series

YCOV200..1200C5F



Suitable for measuring DC, AC, and pulse currents; the primary and secondary circuits are completely isolated, with no insertion loss.

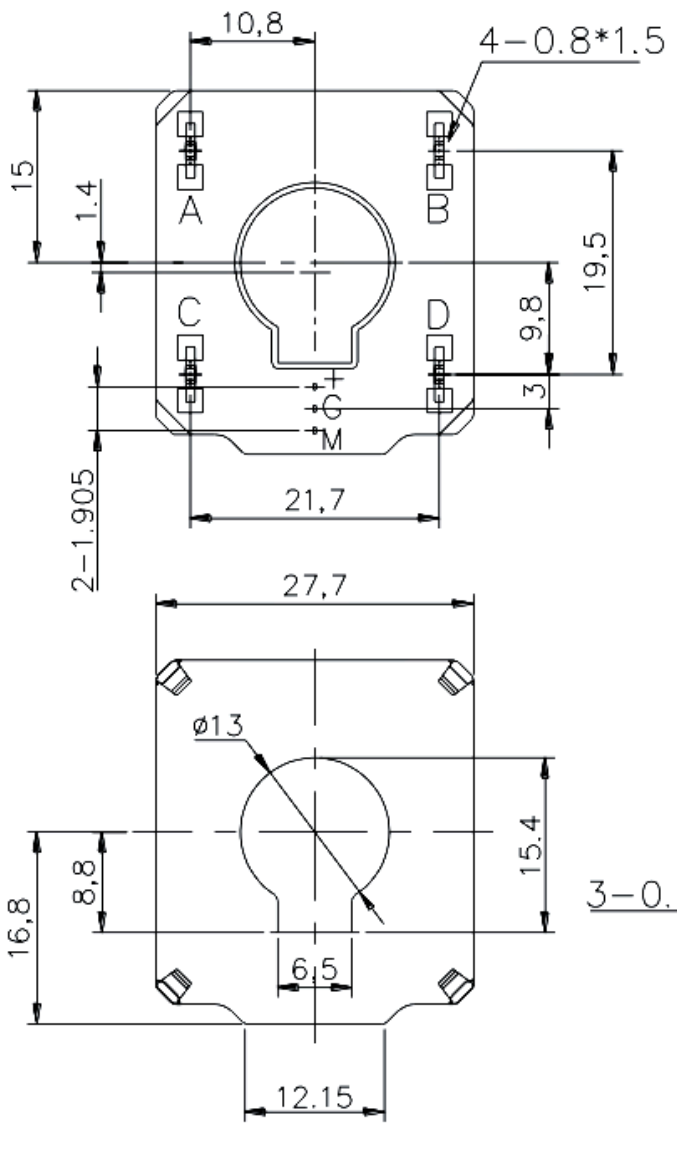
Product Model	Rated Current Ipn (A)	Maximum Measurement Range Ipm (A)
YCOV200C5F	±200	±220
YCOV400C5F	±400	±440
YCOV600C5F	±600	±660
YCOV800C5F	±800	±880
YCOV1000C5F	±1000	±1100
YCOV1200C5F	±1200	±1200

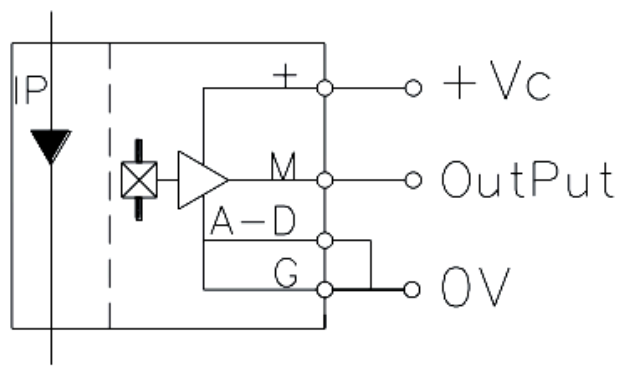
Application Field
• Switching Power Supply
• AC Inverter
• Uninterruptible Power Supply (UPS)
• Test and Measurement Equipment
• Instruments and Meters

Executive Standards

- JB/T 7490-2007 Hall Effect Current Sensors
- SJ20790-2000 General Specification for Current and Voltage Sensors

Outline Dimensions and Pin Definition (Unit: mm)





Pin	Description
+	DC +5V
G	Ground
M	Output Pin

- General Tolerance ： ±1 mm
- Other Tolerances： GB/T 1804-2000-M

Electrical Parameters @25°C, Vcc=5V, RL=10KΩ

Parameter Description	Symbol	Unit	Test Conditions	Min	Typ	Max
Supply Voltage	VCC	V	@DC	4.75	5	5.5
Power Consumption Current	IC	mA	@Ipn		15	
Rated Output	VOUT	V	@ Ipn, RL=10K, T=25 ° C		VOUT= (VCC/5)*V px + G%	
Sensitivity	G	mV/A	@200A		10	
			@400A		5	
			@600A		3.33	
			@800A		2.5	
			@1000A		2	
			@1200A		1.67	
Quiescent Output Voltage	VOX	V	@Ipn=0A	1/2VCC -0.01	1/2VCC	1/2VCC +0.01
Magnetic Hysteresis Voltage	VOM	mV	@Ipn=0A, T=25 ° C		±10	
Load Resistance	RL	Ω	@VCC +5V, Ipn	4.7K		
Output Resistance	ROUT	Ω			9	
Accuracy	XG	%	@Ipn, T=25 ° C	-1		1
Linearity	ε L	%	@Ipn, T=25 ° C	-1		1
Current Tracking Accuracy	dI/dt	A/μs		100		
Response Time	TR	μs	@90%Ipn			5
Offset Output Temp Drift	TCVox	mV/ ° C	@-40 ° C~+125 ° C		±0.5	
Rated Output Temp Drift	TCVout	mV/ ° C	@-40 ° C~+125 ° C		±0.5	
Operating Bandwidth	BW	KHz			DC 120	
Operating Temperature Range	TA	° C		-40 ° C		+125 ° C
Storage Temperature Range	TS	° C		-45 ° C		+125 ° C
Dielectric Strength	Vd	V	@AC50/60Hz 1 Min		3000	
Insulation Resistance		Ω	@DC500V	1000M		

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