



# DATA SHEET

## Hall Effect Current Sensor

**PN: CHK\_F15D4H**

**IPN=200-2000A**

### Feature

- Open-loop
- Capable measurement of currents: DC, AC, pulse with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC  $\pm 12\sim 15V$
- Removable structure

### Advantages

- High accuracy
- Easy installation
- No insertion losses
- Low power consumption
- Wide current measuring range
- High immunity to external interference
- Very good linearity
- Can be customized

### Applications

- Inverter applications
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Frequency drive control home appliances



### Electrical data: (Ta=25°C, Vc=±15VDC, RL=10KΩ)

Parameter \ Ref	CHK200 F15D4H	CHK400 F15D4H	CHK800 F15D4H	CHK1000 F15D4H	CHK1200 F15D4H	CHK2000 F15D4H
Rated input Ipn(A)	200	400	800	1000	1200	2000
Measuring range Ip(A)	0~±400	0~±800	0~±1600	0~±2000	0~±2400	0~±3000
Output voltage Vo(V)	$\pm 4.0^*(IP/IPN)$					
Load resistance RL(KΩ)	>10					
Supply voltage VC(V)	(±12~±15) ±5%					
Accuracy XG(%)	@IPN, T=25°C      < ±0.5					
Offset voltage VOE(mV)	@IP=0, T=25°C      < ±20					
Temperature variation of VOE VOT(mV/°C)	@IP=0, -40 ~ +85°C      < ±1.0					
Hysteresis offset voltage VOH(mV)	@IP=0, after 1*IPN      < ±20					
Linearity error er(%FS)	< 0.5					
Di/dt accurately followed (A/us)	> 100					
Response time tra(μs)	@90% of IPN      <5.0					
Power consumption IC(mA)	15					



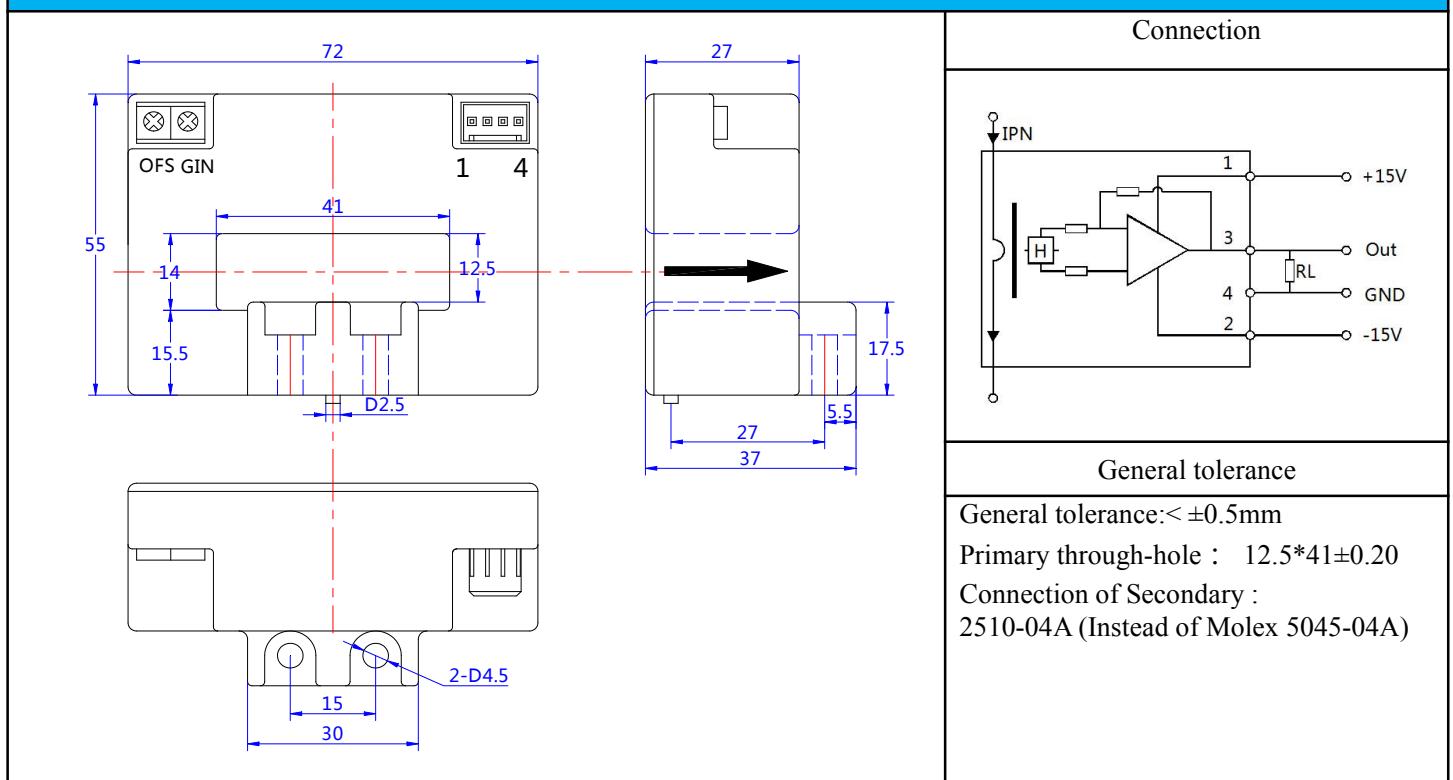
# Cheemi Technology Co., Ltd

Bandwidth Bw(KHZ)	@-3dB, IPN	DC-20
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	5.0

## General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C )	-55~ +125
Mass M(g )	235
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001 EN50178:1998 SJ20790-2000

## Dimensions(mm):



## Remarks:

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.
- The dynamic performance is the best when the primary hole if fully filled with.
- The primary conductor should be <100°C.

**WARNING : Incorrect wiring may cause damage to the sensor.**

