



# DATA SHEET

## Hall Effect Current Sensor

PN: CHK\_F15D4

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 ±12~15V
- Removable structure

### Advantages

- Excellent 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



RoHS



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

Parameter	Ref	CHK200 F15D4	CHK400 F15D4	CHK800 F15D4	CHK1000 F15D4	CHK1200 F15D4	CHK2000 F15D4
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)				±4.0*(IP/IPN)			
Load resistance RL(KΩ)					>10		
Supply voltage VC(V)				(±12~±15) ±5%			
Accuracy XG(%)		@IPN,T=25°C		<±1.0			
Offset voltage VOE(mV)		@IP=0,T=25°C		<±25			
Temperature variation of VOE VOT(mV/°C)		@IP=0,-40 ~ +85°C		<±1.0			
Hysteresis offset voltage VOH(mV)		@IP=0,after 1*IPN		<±25			
Linearity error er(%FS)				<1.0			
Di/dt accurately followed (A/μs)				>100			
Response time tra(μs)		@90% of IPN		<5.0			
Power consumption IC(mA)				15			



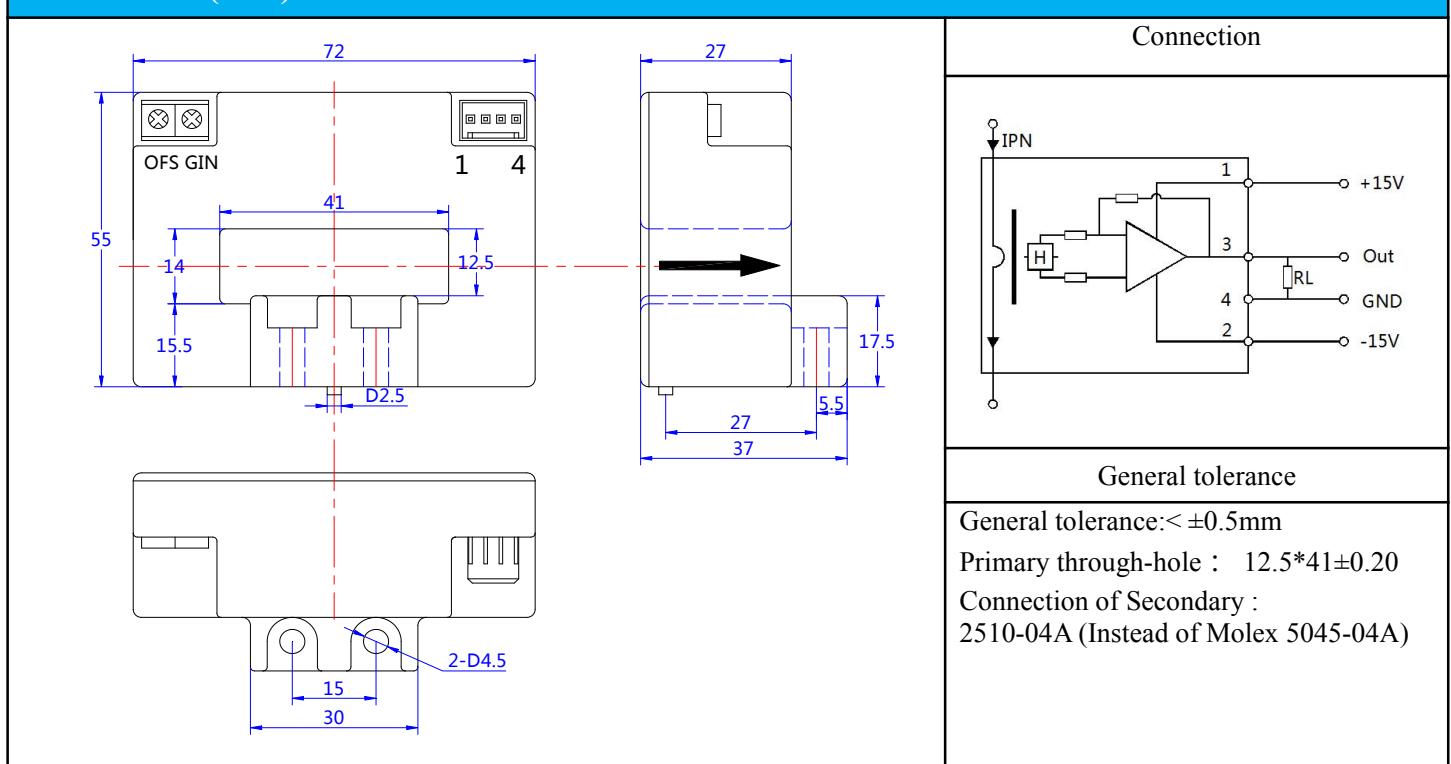
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Bandwidth Bw(KHZ)	@-3dB, IPN	DC-20
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	5.0

## 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; IEC60950-1:2001
Standards	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.**

