



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



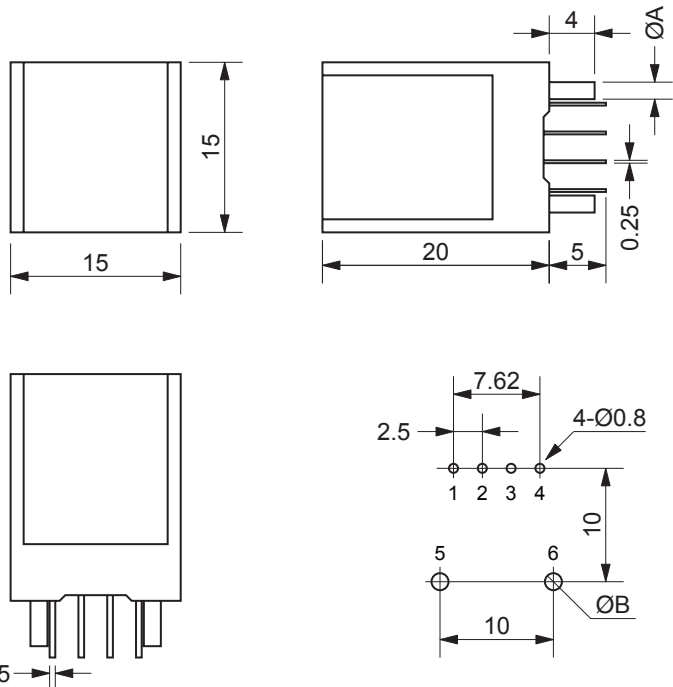
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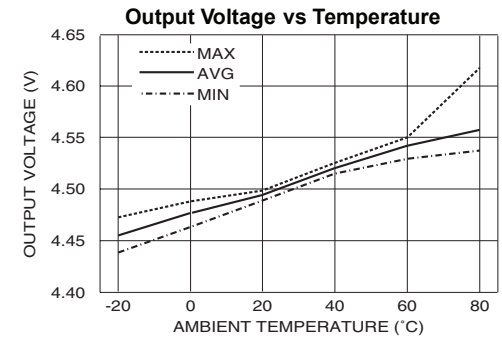
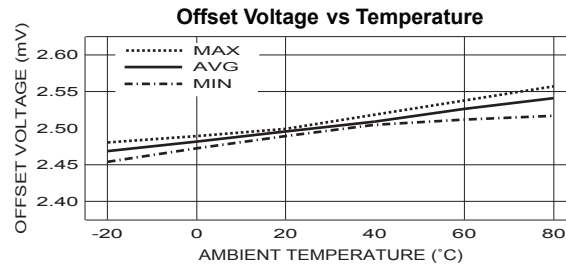
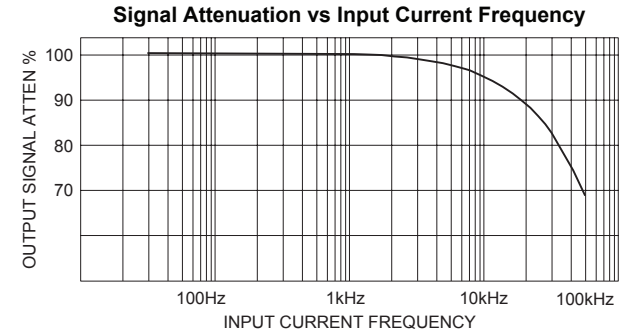
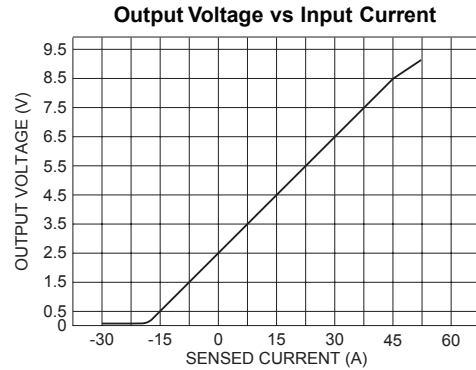
Pin Assignments

| | | |
|------|---|-----------|
| Pin# | 1 | +12V |
| | 2 | NC |
| | 3 | Output |
| | 4 | 0V |
| | 5 | Input (+) |
| | 6 | Input (-) |

Mounting Hole Dimensions

| | | |
|----------|-----|-----|
| Model | ØA | ØB |
| SCD03PSR | 0.7 | 1.2 |
| SCD05PSR | 1.0 | 1.5 |
| SCD10PSR | 1.2 | 1.7 |
| SCD15PSR | 1.5 | 2.0 |
| SCD20PSR | 1.8 | 2.3 |

Characteristics of SCD15PSR



Ordering Information

SCD□□PSR

- Current Rating:
 - 03: 3A
 - 05: 5A
 - 10: 10A
 - 15: 15A
 - 20: 20A
- Input Voltage:
 - A: ±15VDC
 - B: ±12VDC
 - S: +12VDC
 - T: ±5VDC
 - U: +5VDC
- Input Current Polarity:
 - N: +(DC only)
 - R: ± (bipolar)

SPECIFICATIONS

(Vcc = +12V, RL = 10kΩ, Ta = 25°C)

| Model | SCD03PSR | SCD05PSR | SCD10PSR | SCD15PSR | SCD20PSR |
|---------------------------------|---|-------------|--------------|--------------|--------------|
| Rated Current | ±3A | ±5A | ±10A | ±15A | ±20A |
| Linearity Range | +9A -3A | +15A -5A | +30A -10A | +45A -15A | +60A -20A |
| Output Voltage | 4.5V ±30mV @ +Rated Curr.; 0.5V ±30mV @ -Rated Curr. | | | | |
| Zero Current Offset Voltage | +2.5V ±20mV max. (after demagnetization) | | | | |
| Output Voltage Linearity | ± 0.5 % @ rated current | | | | |
| Supply Voltage | +12V ±5% | | | | |
| Max Current Consumption | ±25mA max. | | | | |
| Response | 3 μS typ. @ 50 Amp/Turns/μS | | | | |
| Output V Temp Char | ± 0.1%/°C max. @ rated current | | | | |
| Zero Current Offset V Temp Char | ± 1.5mV/°C max. | | | | |
| Hysteresis | 8mV max. @ rated current to 0A | | | | |
| Primary Overcurrent | 10X rated current, 50 ms, no damage | | | | |
| Withstand Voltage | 2000 VAC, 50/60Hz, 1 minute between primary coil & terminal | | | | |
| Insulation Resistance | 500 VDC between primary coil & terminal | | | | |
| Operating Temp | -10° to +75° C | | | | |
| Storage Temp | -10 to +90°C | | | | |



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| | | | |
|-----------|----------------|--------------|----|
| TITLE: | current sensor | REV: | A |
| PART NO. | SCDXXPSR | UNITS: | MM |
| DRAWN BY: | JRH | APPROVED BY: | |
| SCALE: | | | |

| REV. | DESCRIPTION | DATE |
|------|-------------|------------|
| A | NEW DRAWING | 05/15/2009 |