



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SERIES: SWI6-N | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

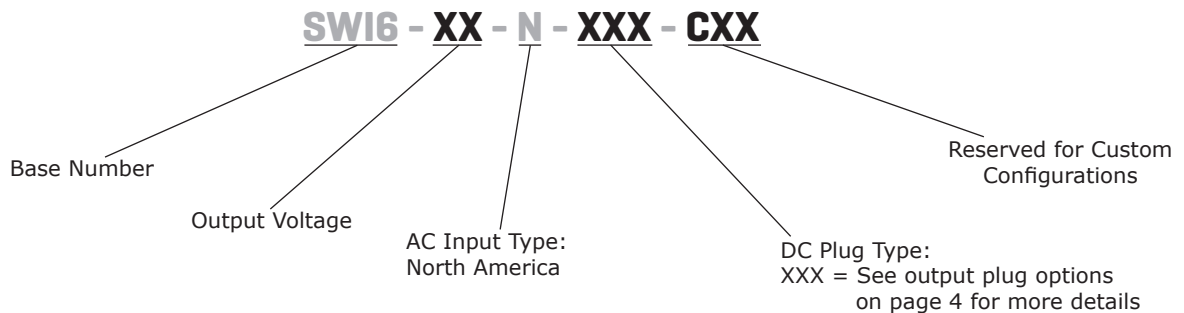
- up to 6 W continuous power
- DoE Level VI efficiency
- no load power consumption < 0.1 W
- compact size
- universal input voltage range
- over voltage, over current, and short circuit protections
- UL/cUL, PSE safety approvals



| MODEL | output voltage | output current max | output power max | ripple and noise ¹ max | efficiency level |
|------------|----------------|--------------------|------------------|-----------------------------------|------------------|
| | (Vdc) | (A) | (W) | (mVp-p) | |
| SWI6-3.3-N | 3.3 | 1.5 | 4.95 | 100 | VI |
| SWI6-5-N | 5 | 1.5 | 7.5 | 100 | VI |
| SWI6-5.9-N | 5.9 | 1.2 | 7.08 | 100 | VI |
| SWI6-7.5-N | 7.5 | 1.0 | 7.5 | 100 | VI |
| SWI6-9-N | 9 | 0.67 | 6.03 | 100 | VI |
| SWI6-12-N | 12 | 0.6 | 7.2 | 120 | VI |
| SWI6-15-N | 15 | 0.5 | 7.5 | 150 | VI |

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 μF multilayer ceramic and 47 μF low ESR electrolytic capacitors.

PART NUMBER KEY



INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|---|-----|-----|------|-------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 0.19 | A |
| inrush current | at 240 Vac, full load, 25°C, cold start | | | 60 | A |
| leakage current | | | | 0.25 | mA |
| no load power consumption | at 115/230 Vac | | | 0.1 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|--------------|--|-----|-----------|-----|--------|
| regulation | 3.3 Vdc output model all other models | | ±10 ±5 | | % % |
| hold-up time | at full load | 10 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|--------------------------|---------------------------------|-----|-----|-----|-------|
| over voltage protection | output shut down | | | 180 | % |
| over current protection | output shut down, auto recovery | | | | |
| | 3.3 Vdc output model | | | 3.5 | A |
| | 5 Vdc output model | | | 3.5 | A |
| | 5.9 Vdc output model | | | 3 | A |
| | 7.5 Vdc output model | | | 2.5 | A |
| | 9 Vdc output model | | | 1.5 | A |
| short circuit protection | 12 Vdc output model | | | 1.5 | A |
| | 15 Vdc output model | | | 1.3 | A |
| short circuit protection | output shut down, auto recovery | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|----------------------|---------------------------------------|---------|-------|-----|-------|
| isolation voltage | input to output at 10 mA for 1 minute | | 3,000 | | Vac |
| isolation resistance | input to output at 500 Vdc | 10 | | | MΩ |
| safety approvals | UL/cUL, PSE | | | | |
| EMI/EMC | FCC Part 15B Class B | | | | |
| MTBF | as per Telcordia SR-332, 25°C | 300,000 | | | hours |
| RoHS | 2011/65/EU | | | | |

ENVIRONMENTAL

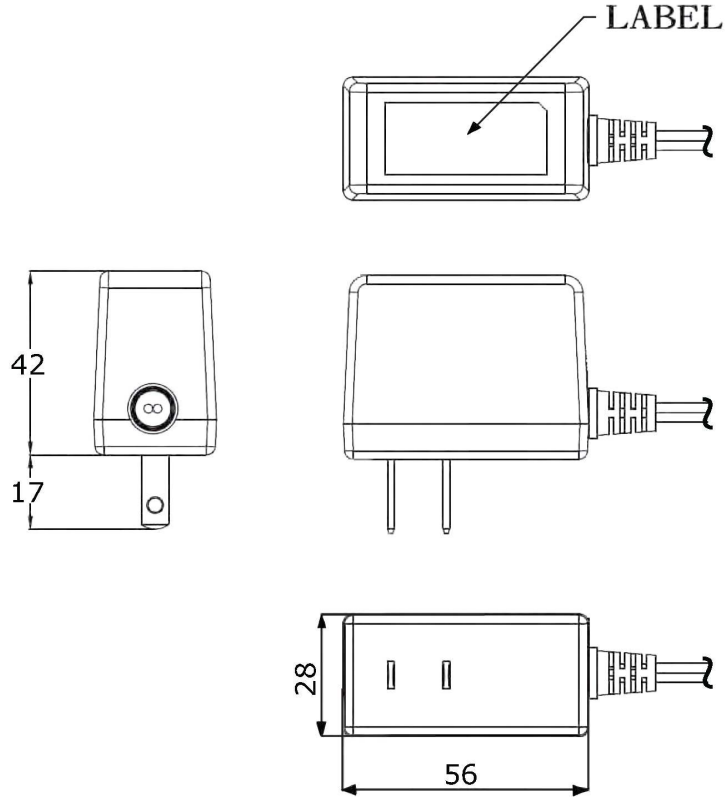
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -20 | | 60 | °C |
| operating humidity | non-condensing | 20 | | 80 | % |
| storage humidity | non-condensing | 10 | | 90 | % |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|------------------------|-----|-----|-----|-------|
| dimensions | 56 x 28 x 42 | | | | mm |
| inlet plug | North America, 2-pin | | | | |
| weight | | | 78 | | g |

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

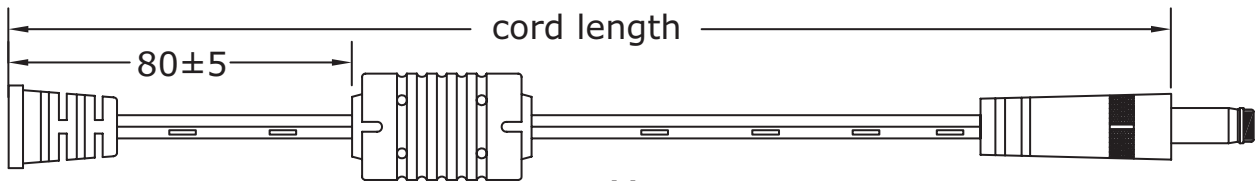




Table 1

| MODEL NO. | CABLE | CORD LENGTH |
|------------|----------------|-------------------|
| SWI6-3.3-N | UL2468, 20 AWG | 1,500 mm \pm 30 |
| SWI6-5-N | UL2468, 20 AWG | 1,500 mm \pm 30 |
| SWI6-5.9-N | UL2468, 20 AWG | 1,500 mm \pm 30 |
| SWI6-7.5-N | UL2468, 22 AWG | 1,500 mm \pm 30 |
| SWI6-9-N | UL2468, 22 AWG | 1,500 mm \pm 30 |
| SWI6-12-N | UL2468, 22 AWG | 1,500 mm \pm 30 |
| SWI6-15-N | UL2468, 22 AWG | 1,500 mm \pm 30 |

DC PLUG TYPE PART NUMBER KEY

XXX

Plug Polarity:
P = Center Positive

N = Center Negative


Plug Code:
X = Choose a code from the options below

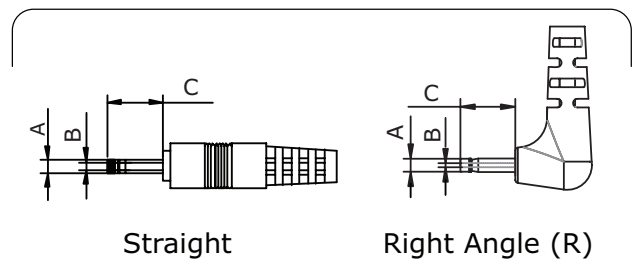
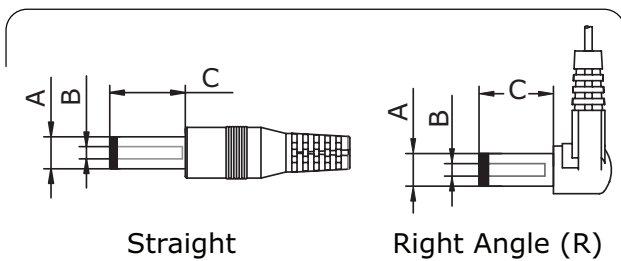
Plug Angle:
"blank" = Straight
R = Right Angle

| Plug Polarity | | Code | | Dimensions (mm) | | | Plug Angle | |
|---------------|-------------|-----------------|-------------------|------------------|------|-----|------------|-------|
| Center Pos. | Center Neg. | Option | Type | A | B | C | Straight | Right |
| N/A | N/A | P1 ¹ | Audio | 3.5 | N/A | 14 | • | N/A |
| • | • | 5 | Standard | 5.5 | 2.1 | 9.5 | • | • |
| • | • | 6 | Standard | 5.5 | 2.5 | 9.5 | • | • |
| • | • | 7 | Standard | 3.5 | 1.35 | 9.5 | • | • |
| • | • | 8 | Standard | 3.8 | 1.35 | 9.5 | • | • |
| • | • | 9 | Standard | 3.8 | 1.05 | 9.5 | • | • |
| • | • | 10 | Locking | 5.5 | 2.1 | 9.5 | • | N/A |
| • | • | 11 | Locking | 5.5 | 2.5 | 9.5 | • | N/A |
| • | • | 12 | EIAJ-1 | 2.35 | 0.7 | 9.5 | • | • |
| • | • | 13 | EIAJ-2 | 4.0 | 1.7 | 9.5 | • | • |
| • | • | 14 | EIAJ-3 | 4.75 | 1.7 | 9.5 | • | • |
| N/A | N/A | ST | Stripped & Tinned | | | | N/A | N/A |
| N/A | N/A | MUB | USB | Micro USB Type B | | | • | N/A |

Note: 1. Tip positive
2. Contact CUI for additional plug options

Standard

EIAJ

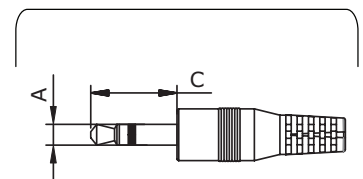
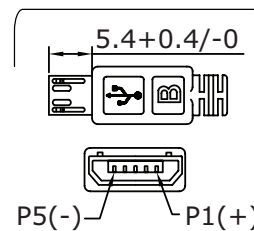
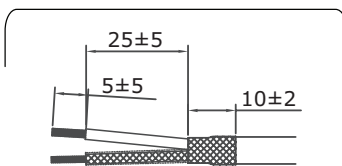
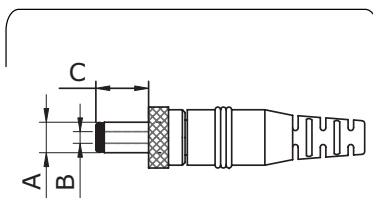


Locking

Stripped & Tinned

USB

Audio



REVISION HISTORY

| rev. | description | date |
|------|------------------------------------|------------|
| 1.0 | initial release | 08/07/2015 |
| 1.01 | added models | 08/12/2015 |
| 1.02 | updated drawing | 11/10/2015 |
| 1.03 | added micro USB Type B plug option | 06/30/2016 |
| 1.04 | added audio plug option | 11/07/2016 |

The revision history provided is for informational purposes only and is believed to be accurate.



Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.