

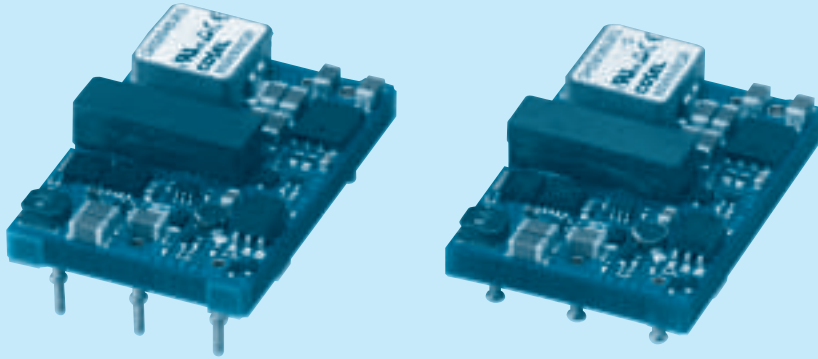
CHS80

CH S 80 48 05 - □

① ② ③ ④ ⑤ ⑥



RoHS



- ① Series name
- ② Single output
- ③ Output power 80:80W
- ④ Input voltage 48:DC36-76V
- ⑤ Output voltage 3R3:3.3V 05:5.0V 12:12V
- ⑥ Optional
 R :with Remote ON/OFF Positive logic control
 U :Shut down in protection circuit working
 S :SMD

CHS

| MODEL | CHS80483R3 | CHS804805 | CHS804812 |
|-----------------------|------------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 82.5 | 80.0 | 90.0 |
| DC OUTPUT | 3.3V 25A | 5.0V 16A | 12V 7.5A |

SPECIFICATIONS

| | MODEL | CHS80483R3 | CHS804805 | CHS804812 | |
|-------------------------------|------------------------------------|--|----------------------------|----------------------------|-------------|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | |
| | CURRENT[A] | *1 1.86typ | 1.81typ | 2.03typ | |
| | EFFICIENCY[%] | *1 92typ | 92typ | 92typ | |
| OUTPUT | VOLTAGE[V] | 3.3 | 5 | 12 | |
| | CURRENT[A] | 25 | 16 | 7.5 | |
| | LINE REGULATION[mV] | ± 10max | | | |
| | LOAD REGULATION[mV] | ± 10max | | | |
| | RIPPLE | [mVrms] *2 | 30max | 30max | 50max |
| | | [mVp-p] *2 | 80max | 100max | 150max |
| | RIPPLE NOISE[mVp-p] | *2 120max | 150max | 180max | |
| | TEMPERATURE REGULATION[mV] | 66max | | | |
| | DRIFT[mV] | *3 16max | 20max | 40max | |
| | START-UP TIME[ms] | 200max (DCIN 48V, Io=100%) | | | |
| | OUTPUT VOLTAGE ADJUSTMENT RANGE | *4 Fixed (TRM pin open), adjustable by external resistor -10% / +15% | | -10% / +20% | -10% / +10% |
| OUTPUT VOLTAGE SETTING | ± 1.6% | | | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rating (Auto restart) | | | |
| | OVERVOLTAGE PROTECTION | 120% - 140% (Auto restart) | 125% - 145% (Auto restart) | 115% - 135% (Auto restart) | |
| | REMOTE SENSING | Provided | | | |
| | REMOTE ON/OFF | Provided (Negative logic L:ON, H:OFF) | | | |
| ISOLATION | INPUT-OUTPUT | DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) | | | |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max | | | |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max | | | |
| | VIBRATION | 10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis | | | |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each along X, Y and Z axis | | | |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL (CSA60950-1), EN60950-1 | | | |
| OTHERS | CASE SIZE/WEIGHT | 33.0 × 10.5 × 22.76mm [1.3 × 0.41 × 0.9 inches] (W × H × D) / 21g max | | | |
| | COOLING METHOD | Convection / Forced air | | | |

*1 At rated input(DC48V) and rated load. Ta=25°C, 2m/s.

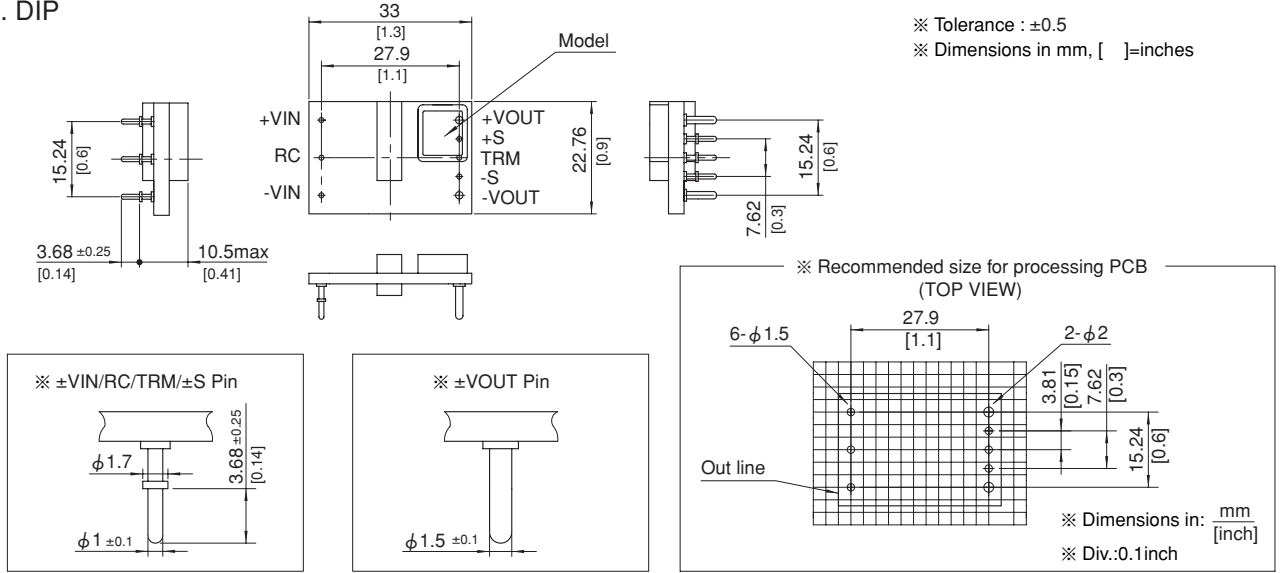
*2 Ripple and ripple noise is measured by using measuring board with ceramic capacitor 22 μF.

*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

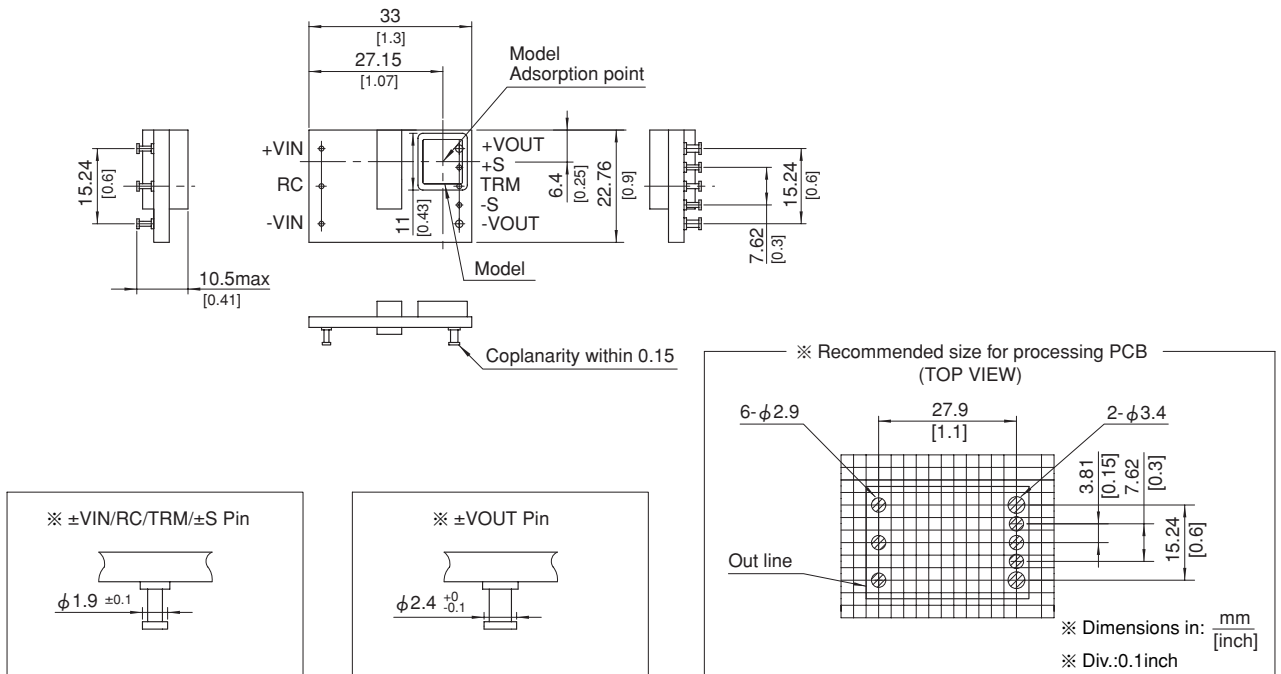
*4 Refer to the instruction manual for input voltage derating.

External view

1. DIP



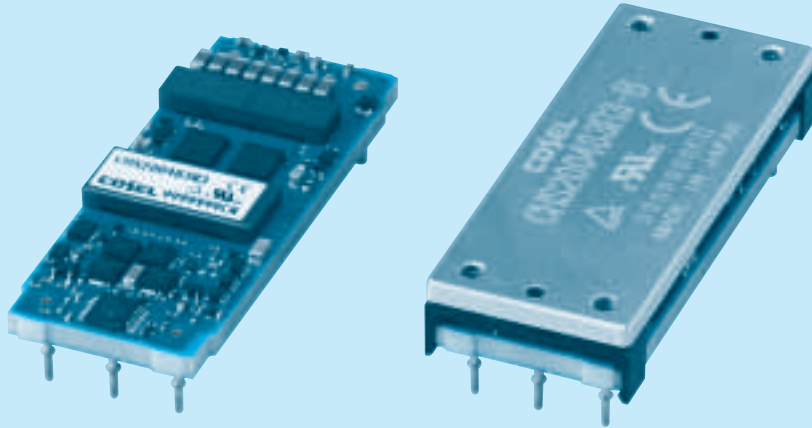
2. SMD (optionS)



CHS200

CH S 200 48 05 - □

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output power
200:200W
- ④ Input voltage
48:DC36-76V
- ⑤ Output voltage
3R3:3.3V
05:5.0V
12:12V
- ⑥ Optional
R :with Remote ON/OFF
Positive logic control
U :Shut down in protection
circuit working
B :BasePlate option with
Mounting hole M3
L5:5pins option
(+S, -S, TRM less)

| MODEL | CHS200483R3 | CHS2004805 | CHS2004812 |
|-----------------------|-------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 165.0 | 200.0 | 192.0 |
| DC OUTPUT | 3.3V 50A | 5.0V 40A | 12V 16A |

SPECIFICATIONS

| | MODEL | CHS200483R3 | CHS2004805 | CHS2004812 | |
|-------------------------------|------------------------------------|--|----------------------------|----------------------------|--------|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | |
| | CURRENT[A] | *1 3.70typ | 4.43typ | 4.26typ | |
| | EFFICIENCY[%] | *1 93typ | 94typ | 94typ | |
| OUTPUT | VOLTAGE[V] | 3.3 | 5 | 12 | |
| | CURRENT[A] | 50 | 40 | 16 | |
| | LINE REGULATION[mV] | ± 10max | | | |
| | LOAD REGULATION[mV] | ± 10max | | | |
| | RIPPLE | [mVrms] *2 | 30max | 30max | 50max |
| | | [mVp-p] *2 | 80max | 100max | 150max |
| | RIPPLE NOISE[mVp-p] | *2 120max | 150max | 180max | |
| | TEMPERATURE REGULATION[mV] | 66max | 100max | 240max | |
| | DRIFT[mV] | *3 16max | 20max | 40max | |
| | START-UP TIME[ms] | 200max (DCIN 48V, I _o =100%) | | | |
| | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open), adjustable by external resistor | | | |
| ADJUSTMENT RANGE | -10% / +15% | -10% / +20% | -10% / +10% | | |
| OUTPUT VOLTAGE SETTING | ± 1.6% | | | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rating (Auto restart) | | | |
| | OVERVOLTAGE PROTECTION | 120% - 140% (Auto restart) | 125% - 145% (Auto restart) | 115% - 135% (Auto restart) | |
| | REMOTE SENSING | Provided | | | |
| | REMOTE ON/OFF | Provided (Negative logic L:ON, H:OFF) | | | |
| ISOLATION | INPUT-OUTPUT | DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) | | | |
| | INPUT-BASEPLATE | *5 DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) | | | |
| | OUTPUT-BASEPLATE | *5 AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) | | | |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max | | | |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max | | | |
| | VIBRATION | 10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis | | | |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each along X, Y and Z axis | | | |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL (CSA60950-1), EN60950-1 | | | |
| OTHERS | CASE SIZE/WEIGHT | 57.9 × 10.5 × 22.76mm [2.28 × 0.41 × 0.9 inches] (W × H × D) / 30g max | | | |
| | COOLING METHOD | 58.4 × 12.7 × 23.26mm [2.3 × 0.5 × 0.92 inches] (W × H × D) / 45g max *5 | | | |
| | COOLING METHOD | Convection / Forced air / Conduction | | | |

*1 At rated input(DC48V) and rated load. Ta=25°C, 2m/s.

*2 Ripple and ripple noise is measured by using measuring board with ceramic capacitor 22 μF.

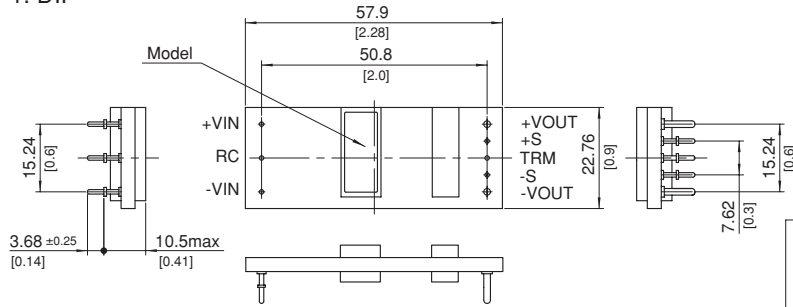
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*4 Refer to the instruction manual for input voltage derating.

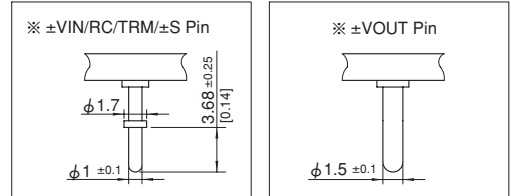
*5 BasePlate Option.

External view

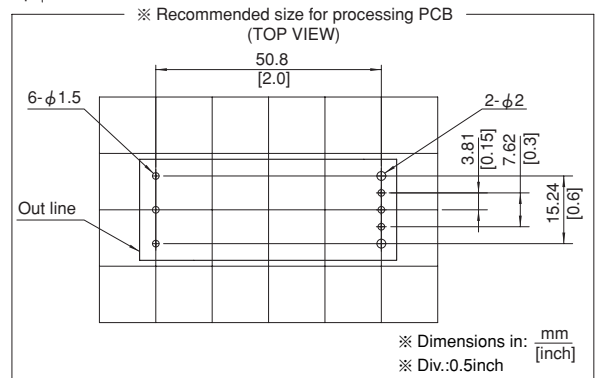
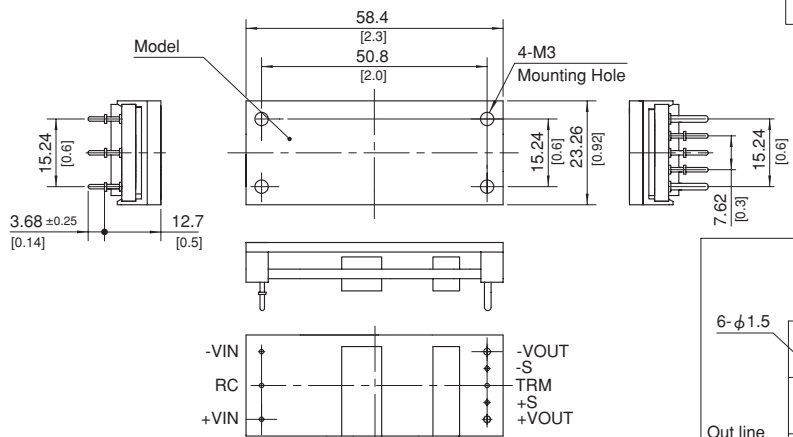
1. DIP



※ Tolerance : ±0.5
 ※ Dimensions in mm, []=inches



2. BasePlate (optionB)



3. 5pins type (option L5)

