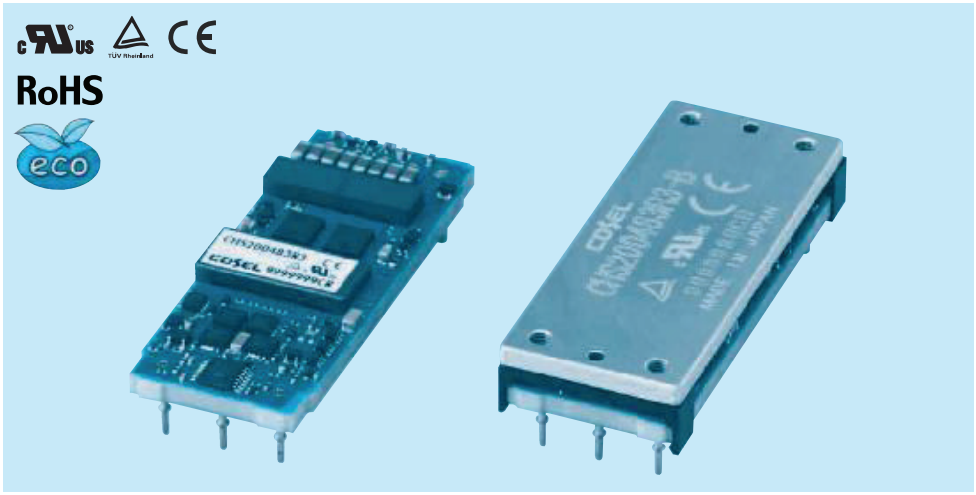
COSEL DC-DC Converters Power Module type

CHS200

Ordering information

CH	S	200	48	05	-□
①	②	③	④	⑤	⑥



①Series name
②Single output
③Output power
200:200W
④Input voltage
48:DC36-76V
⑤Output voltage
3R3:3.3V
05:5.0V
12:12V
⑥Optional
R :with Remote ON/OFF Positive logic control
U :Shut down in protection circuit working
B :BasePlate option with Mounting hole M3
L2:Pin length 5.3mm
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, 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℃)		
	INPUT-BASEPLATE	*5	DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)		
	OUTPUT-BASEPLATE	*5	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-40 to +85℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max		
	STORAGE TEMP.,HUMID.AND ALTITUDE		-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max		
	VIBRATION		10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT		196.1m/s² (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		
			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℃, 2m/s.
*2 Ripple and ripple noise is measured by using measuring board with ceramic capacitor 22μF.
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
*4 Refer to the instruction manual for input voltage derating.
*5 BasePlate Option.

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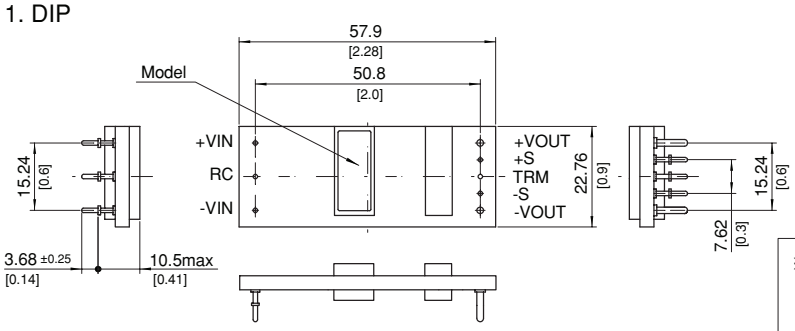
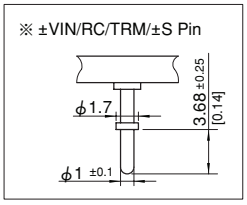
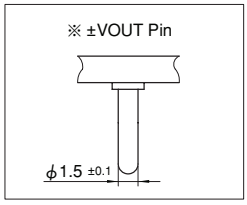
External view

1. DIP

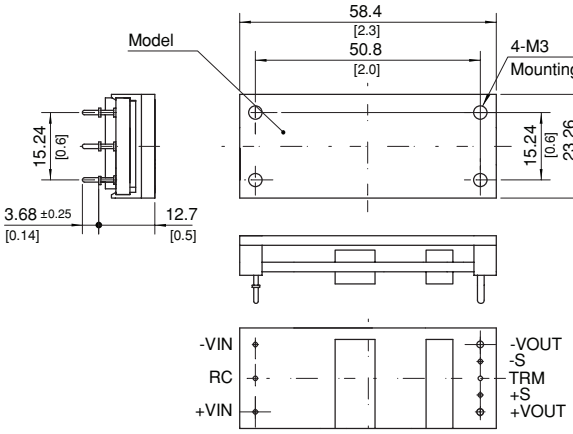
※ Tolerance : ±0.5 [±0.02]
※ Dimensions in mm, [ ]=inches

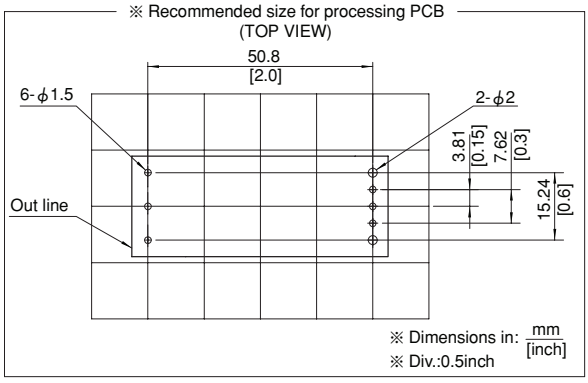




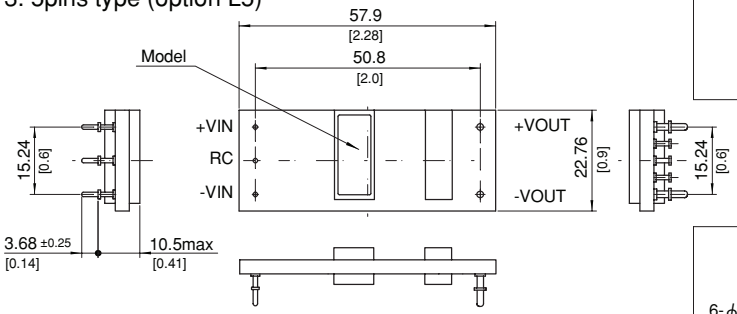


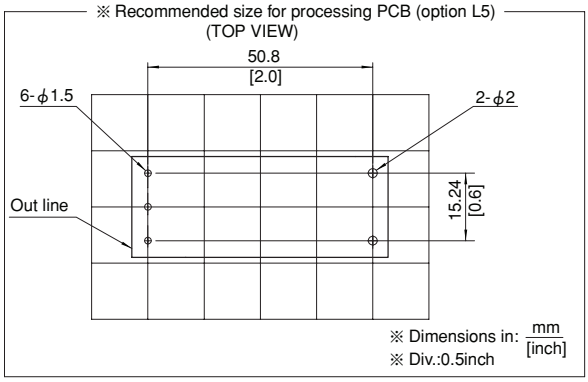
2. BasePlate (optionB)





3. 5pins type (option L5)





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