

COSEL

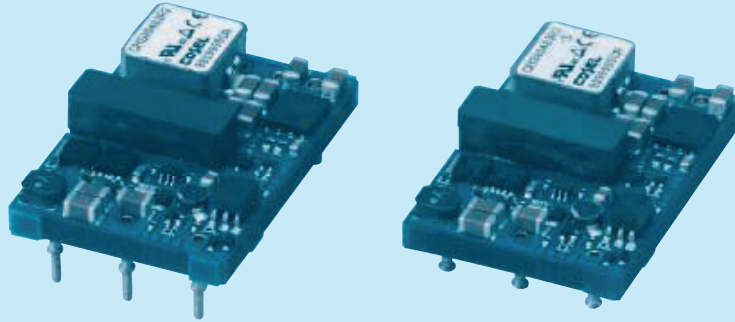
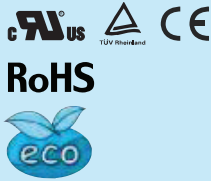
DC-DC Converters Power Module type

CHS80

Ordering information

CH S 80 48 05 - ☐

① ② ③ ④ ⑤ ⑥



- 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

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

CHS 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	100max	240max
	DRIFT[mV]	*3 16max	20max	40max
	START-UP TIME[ms]	200max (DCIN 48V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE	Fixed (TRM pin open), adjustable by external resistor		
		-10% / +15%	-10% / +20%	-10% / +10%
	OUTPUT VOLTAGE SETTING	± 1.6%		
	OVERCURRENT PROTECTION	Works over 105% of rating (Auto restart)		
PROTECTION CIRCUIT AND OTHERS	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 x 10.5 x 22.76mm [1.3 x 0.41 x 0.9 inches] (W x H x 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 22μF.

*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.

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

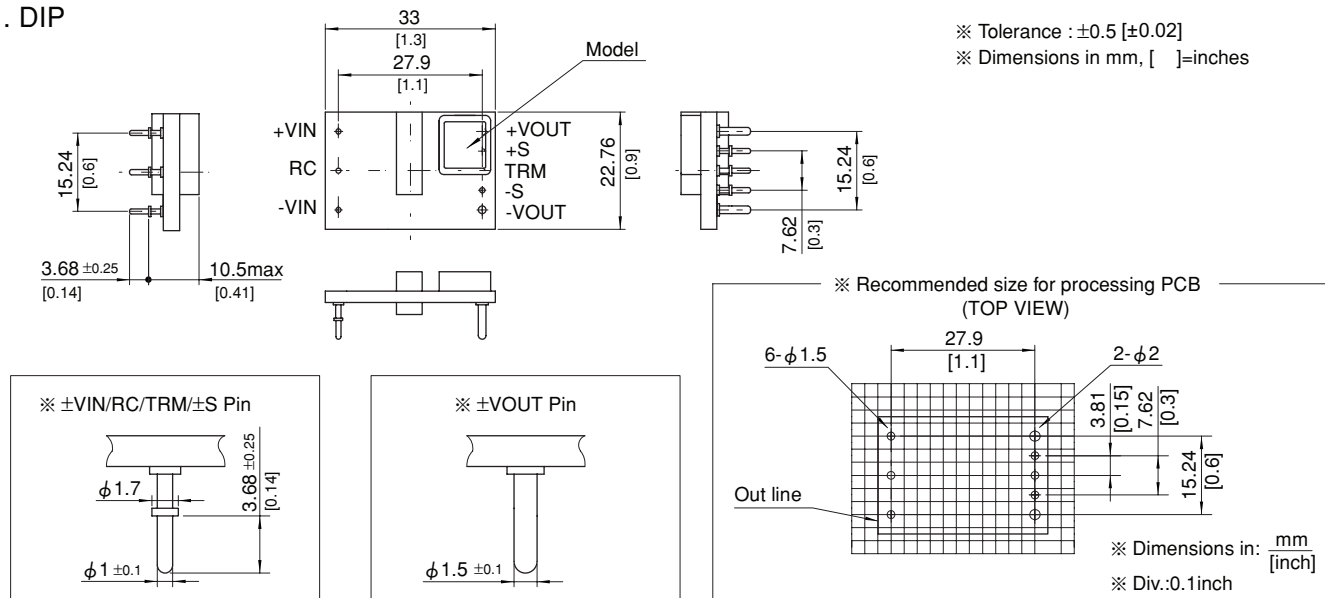
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External view

1. DIP



2. SMD (options)

