

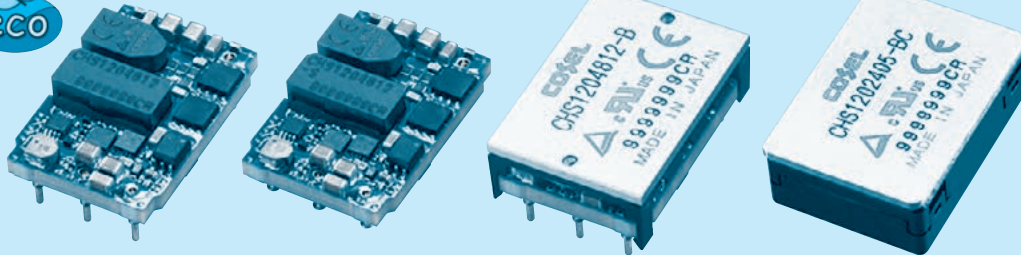
CHS120

CH S 120 48 05 - □

① ② ③ ④ ⑤ ⑥



RoHS



- ① Series name
- ② Single output
- ③ Output power
- ④ Input voltage
24:DC18 - 36V
48:DC36 - 76V
- ⑤ Output voltage
3R3:3.3V
05:5.0V
12:12V
15:15V
24:24V
- ⑥ Optional
R : with Remote ON/OFF
Positive logic control
U : Shut down in protection
circuit working
S : SMD
B : BasePlate option
BC: Baseplate and case option
(only CHS12024)
L2: Pin length 5.3mm
L5: 5pins option
(+S, -S, TRM less)

MODEL	CHS1202405	CHS1202412	CHS1202415	CHS1202424
MAX OUTPUT WATTAGE[W]	120.0	120.0	120.0	100.8
DC OUTPUT	5V 24A	12V 10A	15V 8A	24V 4.2A

SPECIFICATIONS

	MODEL	CHS1202405	CHS1202412	CHS1202415	CHS1202424	
INPUT	VOLTAGE[V]	DC18 - 36				
	CURRENT[A]	*1 5.41typ	5.47typ	5.50typ	4.65typ	
	EFFICIENCY[%]	*1 92.5typ	91.5typ	91typ	90.5typ	
OUTPUT	VOLTAGE[V]	5	12	15	24	
	CURRENT[A]	24	10	8	4.2	
	LINE REGULATION[mV]	10max	24max	30max	48max	
	LOAD REGULATION[mV]	10max	24max	30max	48max	
	RIPPLE	[mVrms]*2	40max	50max	60max	83max
		[mVp-p]*2	120max	150max	180max	250max
	RIPPLE NOISE[mVp-p]	*2 150max	180max	210max	280max	
	TEMPERATURE REGULATION[mV]	100max	240max	300max	480max	
	DRIFT[mV]	*3 20max	40max	50max	80max	
	START-UP TIME[ms]	50max (DCIN 24V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE *4	Fixed (TRM pin open), adjustable by external resistor -10% / +20%				
OUTPUT VOLTAGE SETTING	±1.6%					
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (Auto restart)				
	OVERVOLTAGE PROTECTION	125% - 150% (Auto restart)	115% - 135% (Auto restart)	110% - 130% (Auto restart)	115% - 135% (Auto restart)	
	REMOTE SENSING	Provided				
	REMOTE ON/OFF	Provided (Negative logic L:ON, H:OFF)				

MODEL	CHS120483R3	CHS1204805	CHS1204812	CHS1204815	CHS1204824
MAX OUTPUT WATTAGE[W]	99.0	120.0	120.0	120.0	100.8
DC OUTPUT	3.3V 30A	5V 24A	12V 10A	15V 8A	24V 4.2A

SPECIFICATIONS

	MODEL	CHS120483R3	CHS1204805	CHS1204812	CHS1204815	CHS1204824	
INPUT	VOLTAGE[V]	DC36 - 76					
	CURRENT[A]	*1 2.23typ	2.69typ	2.69typ	2.72typ	2.31typ	
	EFFICIENCY[%]	*1 92.5typ	93typ	93typ	92typ	91typ	
OUTPUT	VOLTAGE[V]	3.3	5	12	15	24	
	CURRENT[A]	30	24	10	8	4.2	
	LINE REGULATION[mV]	10max			30max	48max	
	LOAD REGULATION[mV]	10max			30max	48max	
	RIPPLE	[mVrms]*2	30max	30max	50max	60max	83max
		[mVp-p]*2	80max	100max	150max	180max	250max
	RIPPLE NOISE[mVp-p]	*2 120max	150max	180max	210max	280max	
	TEMPERATURE REGULATION[mV]	66max	100max	240max	300max	480max	
	DRIFT[mV]	*3 16max	20max	40max	50max	80max	
	START-UP TIME[ms]	50max (DCIN 48V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE *4	Fixed (TRM pin open), adjustable by external resistor -10% / +15%					
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)	110% - 130% (Auto restart)	115% - 135% (Auto restart)	
	REMOTE SENSING	Provided					
	REMOTE ON/OFF	Provided (Negative logic L:ON, H:OFF)					

GENERAL SPECIFICATIONS

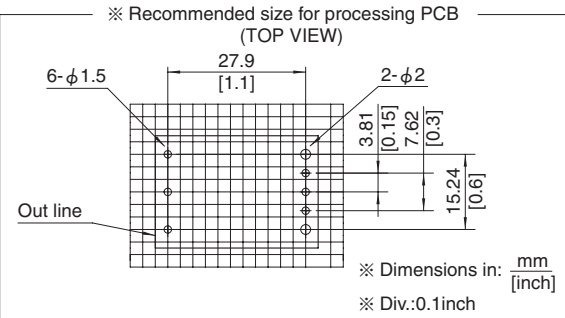
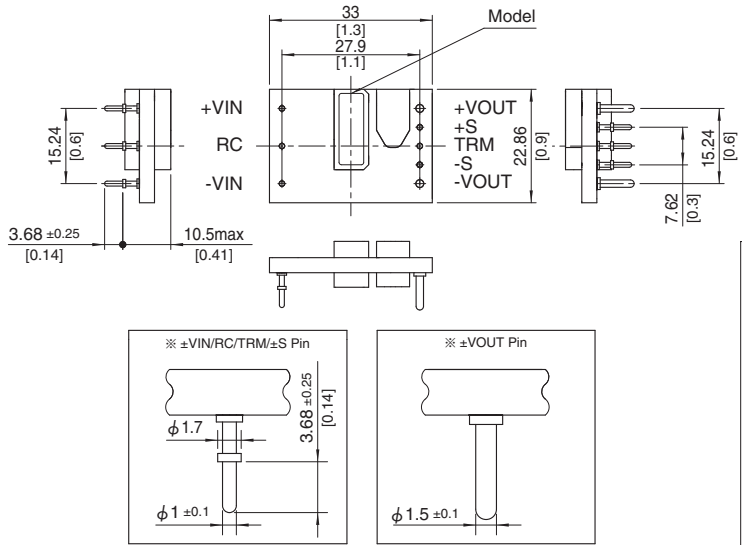
ISOLATION	INPUT-OUTPUT	DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)
	INPUT-BASEPLATE *5 *6	DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)
	OUTPUT-BASEPLATE *5 *6	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 5,000m (16,000feet) 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
SAFETY	IMPACT	196.1m/s ² (20G), 11ms, once each along X, Y and Z axis
	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1
OTHERS	CASE SIZE/WEIGHT	33.0×10.5×22.86mm [1.3×0.41×0.9 inches] (W×H×D) / 19g max
		33.5×12.7×23.36mm [1.32×0.5×0.92 inches] (W×H×D) / 28g max *5
		36.5×12.7×26.5mm [1.44×0.5×1.04 inches] (W×H×D) / 32g max *6
	COOLING METHOD	Convection/Forced air/Conduction

*1 At rated input (DC24V, 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.
 *4 Refer to the instruction manual for input voltage derating.
 *5 BasePlate Option.
 *6 Baseplate and case option.

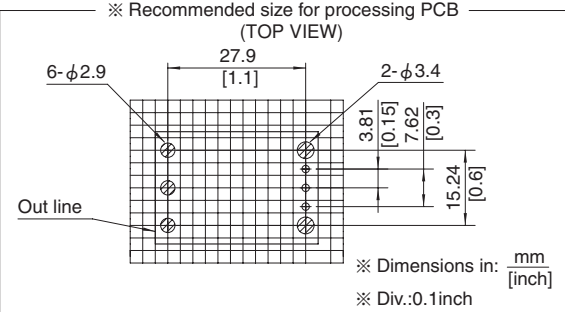
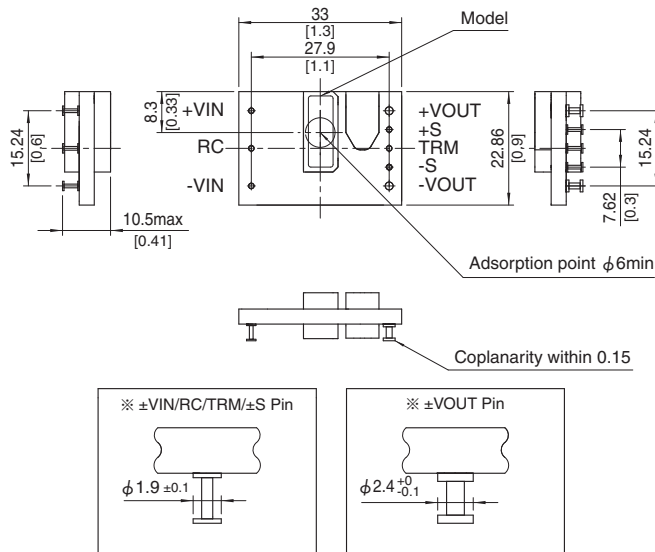
External view

1. DIP

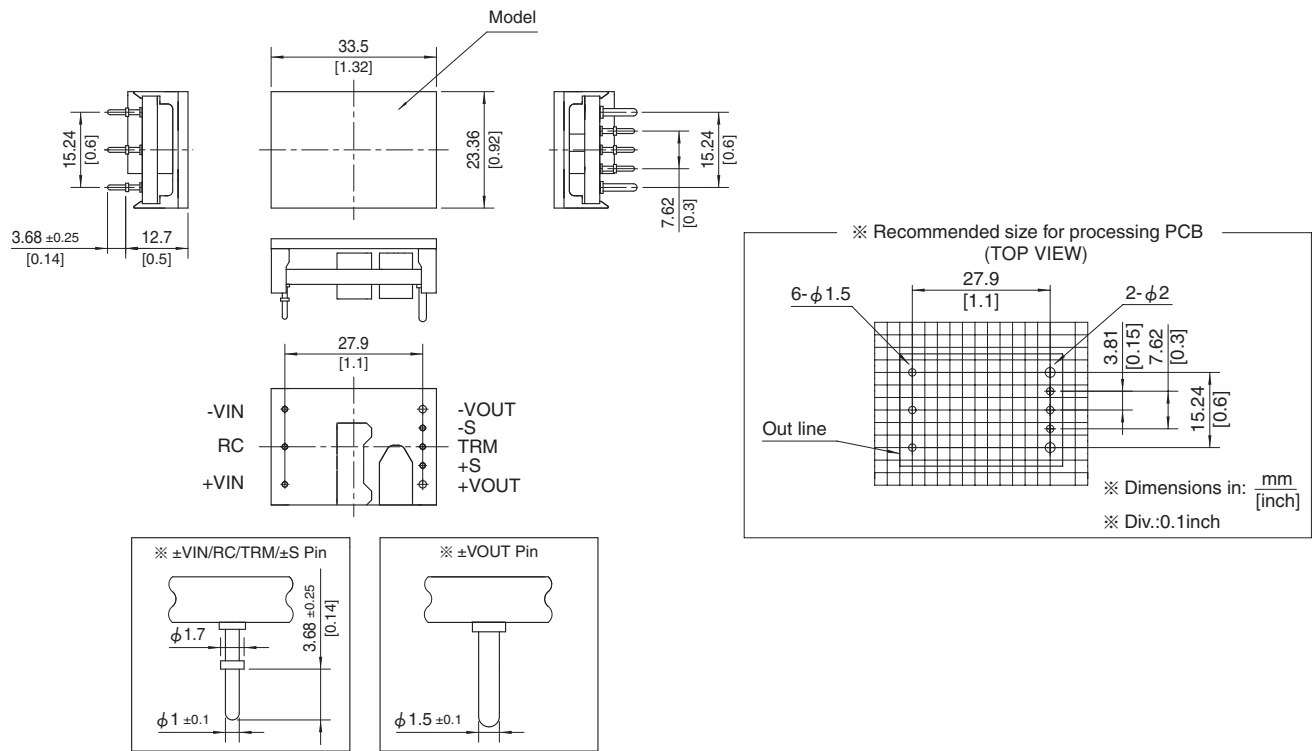
※ Tolerance : ±0.5
 ※ Dimensions in mm, []=inches



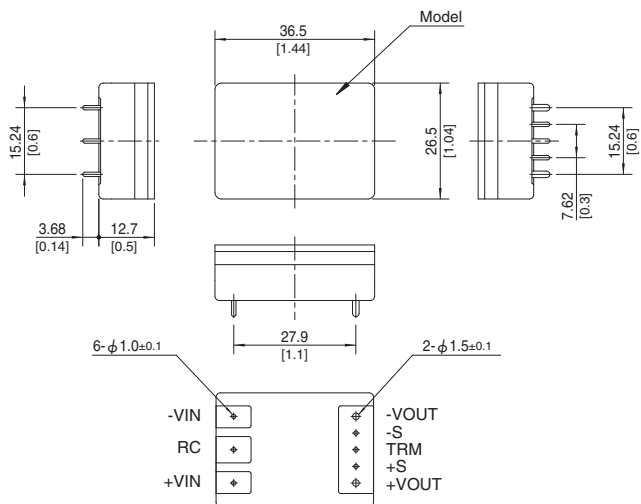
2. SMD (option S)



3. BasePlate (option B)



4. Baseplate and case (option BC)



5. 5 pins type (option L5)

