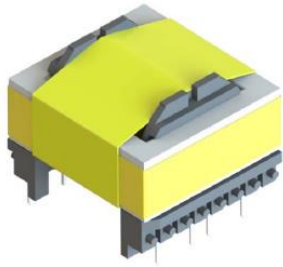


# CMT-CER4042H-001



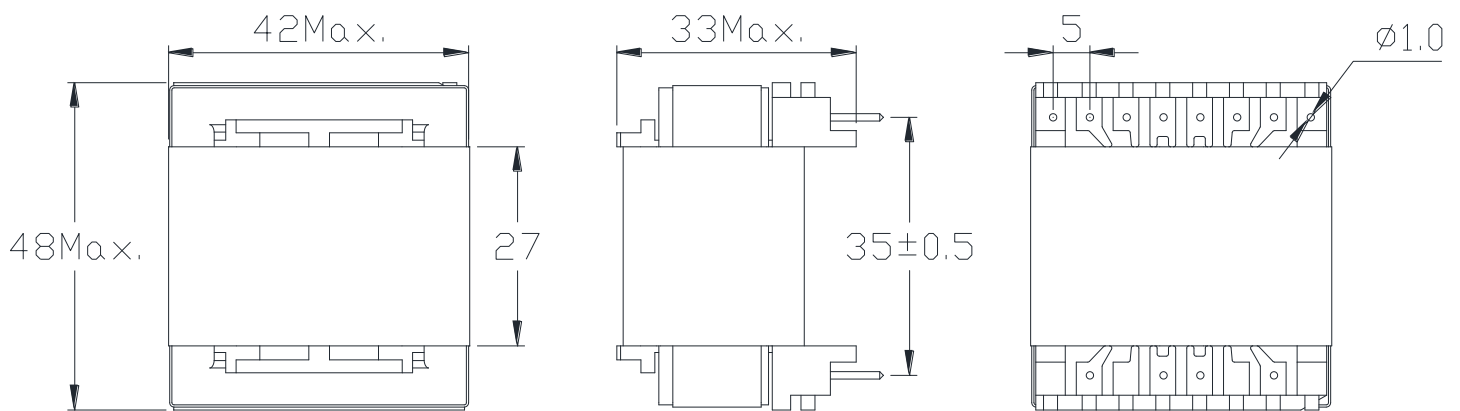
## Picture



## Applications

- ▶ Switching Power Supplies
- ▶ Power Line and Signal Line
- ▶ Measuring Instruments
- ▶ For line filters of AC adapters, battery chargers
- ▶ Monitor and Display Units, etc.
- ▶ Inverter for Automotive
- ▶ AEC-Q200 qualified

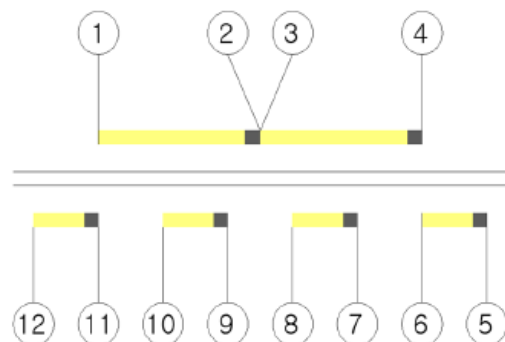
## Dimension (Unit:mm)



## Environmental data

- ▶ Storage temperature range  
:  $-40^{\circ}\text{C} \sim +165^{\circ}\text{C}$
- ▶ Operating temperature range  
(including self temperature)  
:  $-40^{\circ}\text{C} \sim +165^{\circ}\text{C}$

## Schematic Diagram



- You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)
- All specifications are subject to change without notice.
- Update date : 2018.05.25

## Specifications

ITEM	TERMINAL	ELECTRICAL CHARACTERISTICS	TOLERANCE	REMARKS
Inductance	(4-2,3) (2,3-1)	18 $\mu$ H	$\pm$ 40%	100kHz, 0.1Vrms
Leakage Inductance	(4-1)TIED 5 THRU 12	0.2 $\mu$ H	Typ.	100kHz, 0.1Vrms
DC Resistance	(5-8) TIED 10&11	80 m $\Omega$	$\pm$ 20%	
Turn Ratio	Np-1:Np-2:SEC-1:SEC-2 :BOOST-1:BOOST-2	1 : 1 : 11.5 : 11.5 : 8 : 8		
HI-POT	(1 to 5 THRU 12), CORE to 5 THRU 12)	1800A VAC 60 Sec		
HI-POT	(1-CORE)	600A VAC 60 Sec		
HI-POT	(11+12 to 9+10), (5+6 to 7+8), (11+12 to 7+8), (5+6 to 9+10),(11+12 to 5+6)	1800A VAC 60 Sec		

### Notes :

- 1,800VAC / 60 seconds may be replaced by 2,500VAC for 5 seconds, with 1,800VAC for 60 seconds tests done only on a daily sample size. Same for 600VAC/60 seconds with 1,000VAC for 5 seconds
- No high pot testing between pins 8 and 9 as they are connected together in the application.
- Center tap pins 2 and 3 are connected together both in the application and via the foil inside the transformer
- For 5 THROUGH 12 a single test may be performed by shorting all pins 5 through 12 pins to save time instead of serial testing

## Packaging

(1) Inner PAD : 42 pcs / PAD (SIZE : 340×340×48mm)

(2) Out PAD : 3 PAD (126 pcs) / Inner box (SIZE : 360×360×180mm)

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