

DC-DC Converter for gate drive

2DD Series

TAMURA

NEW

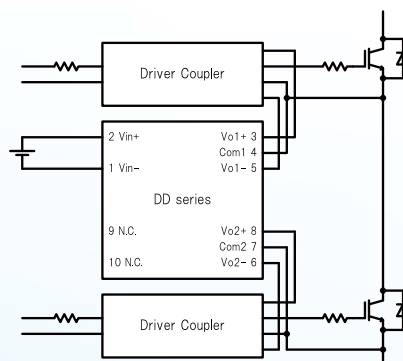
The 2DD series is a dedicated DC-DC Converter for driving various SiC and IGBT power modules. The low parasitic capacitance (9pF) and Insulation voltage (5kV) make this product ideal for driving IGBT and SiC.



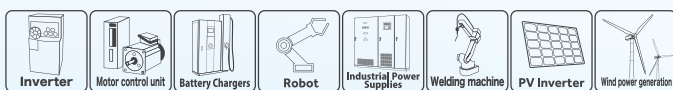
Features

1. High insulation voltage (AC5kV)
2. Low stray capacity (9pF TYP)
3. Low profile (12.5mm)
4. Dual output corresponding to 2 in 1
5. Wide input voltage range (DC13V-28V)

Application Image



Applications



General characteristics (Ta=25°C)

Item		Model			
		2DD151507C	2DD151008C	2DD180407C	2DD180206C
Input Voltage Range		DC13V~28V			
Number of Output		2			
Output Voltage (High) Vo1+,Vo2+		+14V~+16V	+14V~+16V	+17V~+19V	+17V~+19V
Output Voltage (Low) Vo1-,Vo2-		-14V~-16V	-9V~-11V	-3V~-5V	-1V~-3V
Rated Load (per 1ch)		(0.11A)	(0.16A)	(0.15A)	(0.15A)
Efficiency (DC24V, Rated load, Ta=25°C)		79.0%(typ)	79.5%(typ)	78.5%(typ)	77.5%(typ)
Line Regulation (Rated load, Ta=25°C)		50mV(typ)	50mV(typ)	50mV(typ)	50mV(typ)
Load Regulation (DC24V, 10mA~Rated load, Ta=25°C)		200mV(typ)	200mV(typ)	200mV(typ)	200mV(typ)
Ripple		T.B.D	T.B.D	T.B.D	T.B.D
Ripple & Noise		T.B.D	T.B.D	T.B.D	T.B.D
Protection	Over Current Protection	Auto recovery			
	Over Temperature Protection	Auto recovery			
Insulation	Withstand voltage	Primary to secondary : AC5000V			
	Insulation Resistance	Secondary to secondary : AC4000V			
	Isolation Capacitance	DC500V 100MΩmin			
		9pF(typ)			
Environment	Ambient Temperature (Operating)	-40~+85°C (Input Voltage : DC13V~18V)			
	Ambient Humidity (Operating)	-40~+75°C (Input Voltage : DC13V~28V)			
	Ambient Temperature (Storage)	20~95%RH (Nil condensation)			
	Ambient Humidity (Storage)	-40~+90°C			
	Vibration	5~95%RH (Nil condensation)			
	Shock	10~55HZ 1.5mmp-p 120min X,Y,Z direction each once			
		490m/s ² 11ms X,Y,Z direction each once			

The content of this document is subject to change without prior notice for the purpose of improvements.etc.

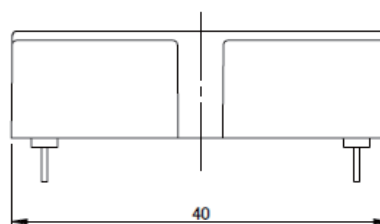
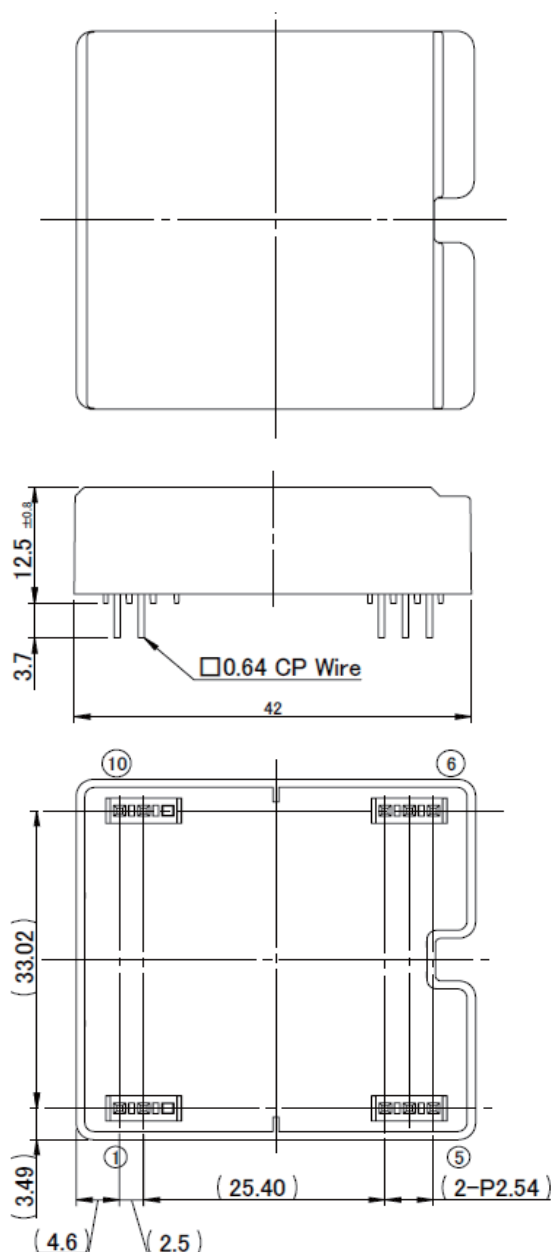
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Outline dimensional drawing



Pin assign

- ① : Vin(-)
- ② : Vin(+)
- ③ : Vo1(+)
- ④ : Com1
- ⑤ : Vo1(-)
- ⑥ : Vo2(-)
- ⑦ : Com2
- ⑧ : Vo2(+)
- ⑨ : N.C.
- ⑩ : N.C.

Unit : mm

Note : 1.The dimensional tolerance without directions is ± 0.5 mm.

Contact TAMURA CORPORATION

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