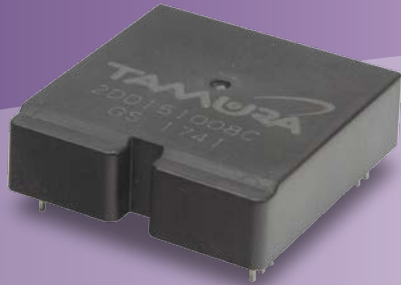
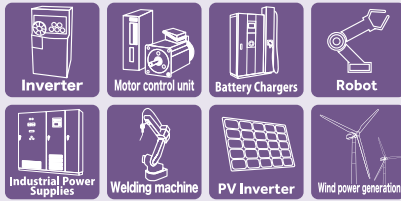


Product Lineup
DC-DC Converter for gate drive
2DD series
c **RL** [®] **US**



Applications



Features

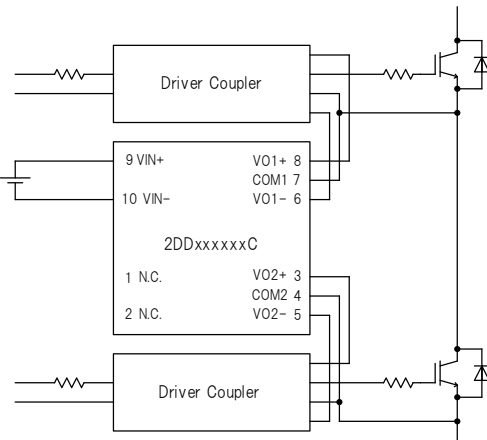
- 1. High insulation voltage (AC5kV)
- 2. Low stray capacity (9pF TYP)
- 3. Low profile (12.5mm)
- 4. Dual output corresponding to 2 in 1
- 5. Wide input voltage range (DC13V-28V)

Standards

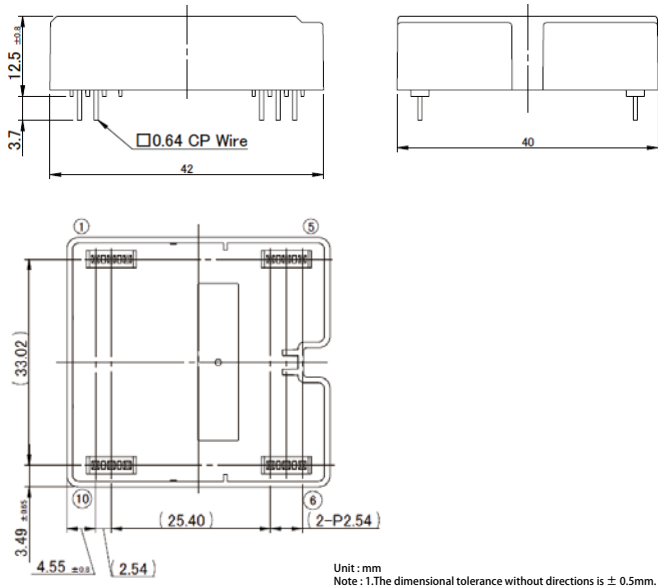
UL508 (file no.E243511)

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.

Application Image



Outline Dimensional Drawing



General characteristics

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	0.16A	0.16A
Efficiency (DC24V, Rated load, Ta=25°C)		78.0% (typ)	78.0% (typ)	78.0% (typ)	77.0% (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)		150mV (typ)	200mV (typ)	150mV (typ)	150mV (typ)
Ripple		250mVpp	150mVpp	150mVpp	150mVpp
Ripple & Noise		300mVpp	200mVpp	200mVpp	200mVpp
Protection	Over Current Protection	Auto recovery			
	Over Temperature Protection	Auto recovery			
Insulation	Withstand voltage	Primary to secondary : AC5000V			
		Secondary to secondary : AC4000V			
	Insulation Resistance	DC500V 100MΩmin			
Environment	Isolation Capacitance	9pF (typ)			
	Ambient Temperature (Operating)	-40 ~ +85°C (Input Voltage : DC13V ~ 18V)			
		-40 ~ +75°C (Input Voltage : DC13V ~ 28V)			
	Ambient Humidity (Storage)	20 ~ 95%RH (No condensation)			
	Ambient Temperature (Storage)	-40 ~ +90°C			
	Ambient Humidity (Storage)	5 ~ 95%RH (No condensation)			
	Vibration	10 ~ 55HZ 1.5mmp-p 120min X,Y,Z direction each once			
	Shock	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.ection ea

Pin assignment

Pin No.	Name
1	N.C.
2	N.C.
3	VO2+
4	COM2
5	VO2-
6	VO1-
7	COM1
8	VO1+
9	VIN+
10	VIN-