

DVETR

DVETR2800D Series

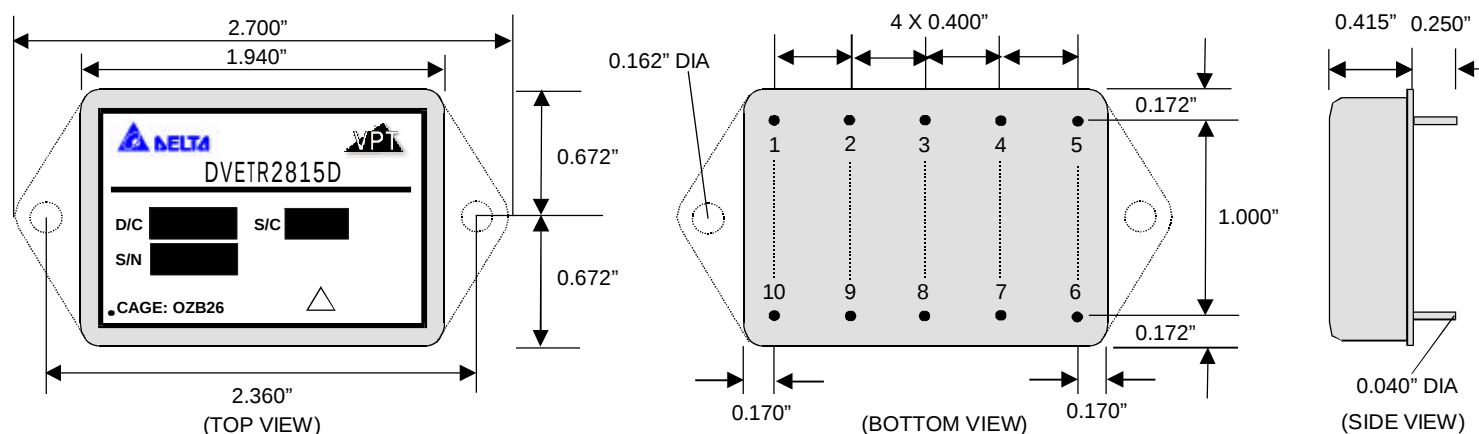
DC/DC Converters with Built-In Internal EMI Filter

- 15V to 50V Input Range with 80V Transient
- 5V, 12V and 15V Dual Outputs Available
- Up to 30W Output Power
- Fault Tolerant Design without OPTO Device
- Built-In Internal EMI Filter Meets MIL-STD-461C CE01, CE03, CE07, CS01 and CS02, and MIL-STD-461D CE101, CE102, and CS101
- Radiation Hardened Version Available
- Low Profile (.415 inches) and Light Weight (50g) Hermetic Package
- -55°C to +125°C Case Temperature Operation
- 500Vdc Input/Output Isolation

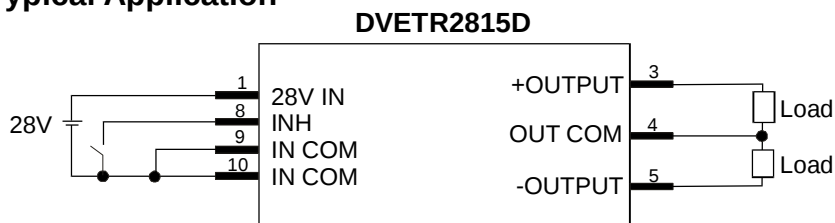
Electrical Performance at 25°C

Parameter	Conditions	DVETR2805D			DVETR2812D			DVETR2814D			DVETR2815D			Units
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
Input Voltage	Continuous Transient ¹	15	28	50 80	15	28	50 80	15	28	50 80	15	28	50 80	Vdc
Output Voltage ²	Full Load	4.95	5.00	5.05	11.88	12.00	12.12	13.86	14.00	14.14	14.85	15.00	15.15	Vdc
Output Power ³	Vin: 15-50V	0		30	0		30	0		30	0		30	W
Efficiency	Vin: 28V, Full Load	73	77		78	82		79	83		80	84		%
Output Ripple ⁴	Vin: 28V, Full Load		40	80		60	120		70	140		75	150	mVpp
Load Regulation ²	No Load to Full +Vo -Vo		10 25	20 50		10 50	20 100		10 60	20 120		10 50	20 100	mV
Line Regulation	Vin: 15 to 50V +Vo -Vo		10 25	20 50		10 50	20 100		10 60	20 120		10 60	20 120	mV
Cross Regulation ⁵	Vin: 15 to 50V +Vo -Vo		10 150	20 300		10 200	20 400		10 250	20 500		10 250	20 500	mV

1. Transient time up to 1 second. 2. Equal load at each output. 3. Each output can only supply 70% of power.
 4. Bandwidth is limited to 10MHz. 5. 70% load at one output and 30% load at the other output.



Typical Application



Pin#	Description
1	28V IN
2	INH
3	-S
4	OUT COM
5	MAIN OUTPUT
6	+S
7	CASE
8	N/C
9	N/C
10	IN COM