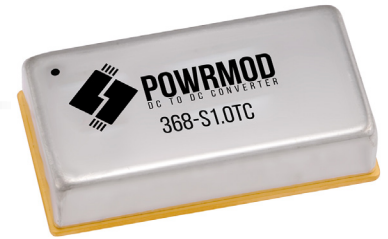




10 WATT RUGGEDIZED DC-DC CONVERTERS OFFER UNPARALLELED VARIETY IN OUTPUT VOLTAGE SELECTION AND 461F EMI PERFORMANCE



FEATURES/BENEFITS

- **Self-contained DC-DC Converter:** Fully Functional; Needs No Additional External Capacitors or Components
- **6 Sided Metal Case:** Shields Against Radiated Emissions and Susceptibility
- **Internal Multi-mode EMI Filter:** Limits Conducted Emissions to MIL-STD-461F Requirements
- **200kHz Current Mode Flyback Topology:** Fully Regulated Output With Low Ripple and Fast Transient Response Time
- **On-Off Control Function:** Simple Logic Level Input Inhibits Output
- **Output Voltage Adjust Function:** User Adjustable Vout in +/- 10% Increments via External Resistor
- **Short Circuit Limited:** Protected Against Output Overloads and Short Circuits
- **Fully Isolated:** Inputs to Outputs and Case 500VDC, Outputs to Case 100VDC
- **Transients Tolerant:** Works Through 80V Input Transients MIL-STD-704A
- **Compact, Encapsulated Construction:** Small Footprint with Long Life and Reliable Operation in Severe Operational Environments
- **Two Grades Available:** Economical, Effective Tailoring to Applications Requirements

368

MODEL: 368 28VDC
INPUT RANGE : 16-80VDC

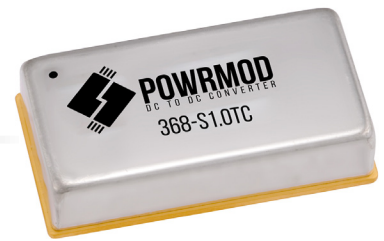
SINGLE OUTPUT

PARAMETER	CONDITION	UNITS	OUTPUTS										
Vout	Setpoint +/- 2%	DC Volts	0.8	1.0	1.2	1.5	1.8	2.0	2.5	3.3	5.0	5.2	7.5
Iout	Vin min-max	Amperes	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.03	2.00	1.92	1.33
Efficiency	Rated Load	Percent Min	62	64	66	66	66	70	70	70	72	72	74
Line Reg	Vin min-max	mV max	20	20	20	20	20	20	20	20	30	30	30
Load Reg	10% to Rated Load	mV max	20	20	20	20	30	30	30	30	50	50	50
Vout Ripple	Rated Load, 20MHz BW	mVpp max	30	30	30	30	30	40	40	40	50	50	75

SINGLE OUTPUT CONTINUED

PARAMETER	CONDITION	UNITS	OUTPUTS CONTINUED					
Vout	Setpoint +/- 2%	DC Volts	10	12	15	24	28	48
Iout	Vin min-max	Amperes	1.00	0.83	0.67	0.42	0.36	0.21
Efficiency	Rated Load	Percent Min	76	76	78	79	79	82
Line Reg	Vin min-max	mV max	30	50	50	50	75	75
Load Reg	10% to Rated Load	mV max	50	75	75	120	120	150
Vout Ripple	Rated Load, 20MHz BW	mVpp max	75	100	100	150	150	150

28VDC INPUT DC-DC CONVERTERS

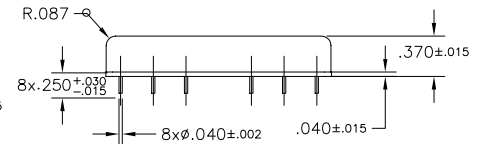
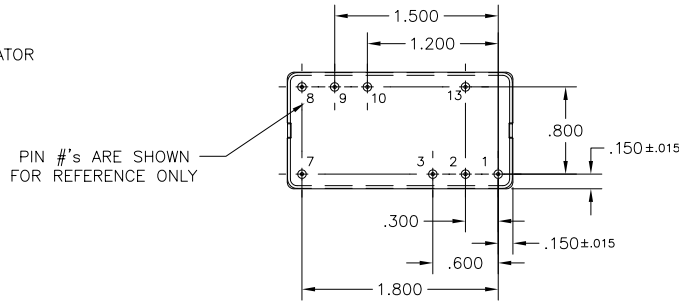
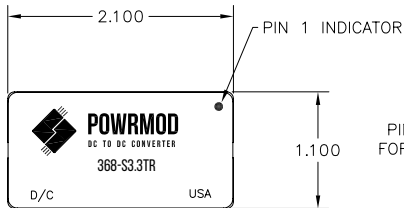


MECHANICAL SPECIFICATIONS

Size	2.07L x 1.07 W x 0.37 H inch
Enclosure	Full Metal CRS
Construction	Encapsulated sealed
Pins	.040 alloy
Weight	65g typical
Mounting	Thru-Hole PWB (TH) or Chassis (CH) mount, any orientation provided baseplate is heatsunk

368

MODEL: 368 28VDC
INPUT RANGE : 16-80VDC



PIN FUNCTIONS

	1	2	3	4	5	6	7	8	9	10	11	12	13
Function for single Outputs	Vin+	Vin Rtn	On-Off Control	NU	NU	NU	NC	Vout Rtn	+ Vout	Vout Adj	NU	NU	Case

DATA 25°C BASEPLATE PRODUCTS AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

PART NUMBERING CONSTRUCTION KEY

MODEL

368

OUTPUT TYPE & VOLTAGE

SINGLE

\$0.8	\$3.3	\$15
\$1.0	\$5.0	\$24
\$1.2	\$5.2	\$28
\$1.5	\$7.5	\$48
\$1.8	\$10	
\$2.0	\$12	

ENCLOSURE

MOUNTING
T = THRU HOLE
C = CHASSIS

GRADE

GRADE LEVEL
C = COMMERCIAL
R = RUGGED

EXAMPLE: 368-S1.0TC