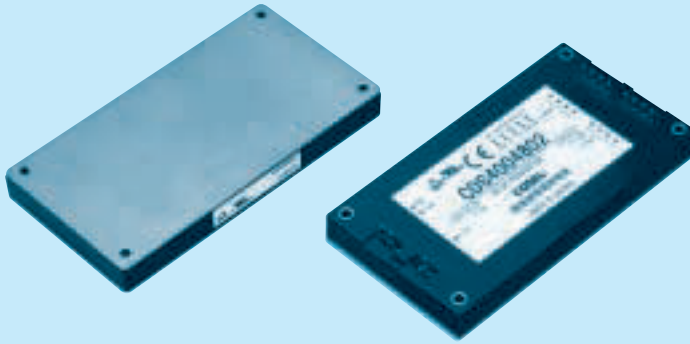


CDS40048

CD S 400 48 12 -O

1 2 3 4 5 6



- 1 Series name
- 2 Single output
- 3 Output wattage
- 4 Input voltage
48:DC36 - 76V
- 5 Output voltage
- 6 Optional
M:with Mounting hole
M3 tapped

TRC ELECTRONICS, INC.
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MODEL	CDS4004802	CDS4004803	CDS4004805	CDS4004807	CDS4004812	CDS4004815	CDS4004824	CDS4004828
MAX OUTPUT WATTAGE[W]	200	330	400	405	500	510	504	504
DC OUTPUT	2V 100A	3.3V 100A	5V 80A	7.5V 54A	12.5V 40A	15V 34A	24V 21A	28V 18A

SPECIFICATIONS

	MODEL	CDS4004802	CDS4004803	CDS4004805	CDS4004807	CDS4004812	CDS4004815	CDS4004824	CDS4004828
INPUT	VOLTAGE[V]	DC36 - 76							
	CURRENT[A]	6typ	9typ	10typ	10typ	12typ	12typ	12typ	12typ
	EFFICIENCY[%]	DCIN 48V, I _o =100% 73typ DCIN 48V, I _o =50% 75typ	80typ 82typ	84typ 86typ	87typ 88typ	89typ 91typ	89typ 90typ	89typ 90typ	89typ 90typ
OUTPUT	VOLTAGE[V]	2	3.3	5	7.5	12.5	15	24	28
	CURRENT[A]	100	100	80	54	40	34	21	18
	LINE REGULATION[mV]	10max	16max	20max	30max	40max	60max	95max	95max
	LOAD REGULATION[mV]	20max	30max	40max	60max	100max	150max	190max	190max
	RIPPLE[mVp-p]	0 to +85°C	80max	80max	80max	100max	120max	120max	120max
		-20 - 0°C	140max	140max	140max	150max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +85°C	100max	100max	100max	140max	150max	150max	150max
		-20 - 0°C	150max	150max	150max	160max	180max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +65°C	25max	35max	50max	75max	120max	180max	280max
		-20 to +85°C	40max	60max	85max	130max	200max	310max	480max
	DRIFT[mV]	10max	16max	20max	30max	40max	60max	90max	90max
PROTECTION CIRCUIT AND OTHERS	START-UP TIME[ms]	200max (DCIN 48V, I _o =100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), 60 - 110% adjustable by external VR or external voltage							
		1.0 - 2.2 * 4	1.98 - 3.63	3.0 - 5.5	4.50 - 8.25	7.50 - 13.75	9.0 - 16.5	14.4 - 26.4	16.8 - 30.8
	OUTPUT VOLTAGE SETTING[V]	1.95 - 2.10	3.25 - 3.45	4.90 - 5.20	7.25 - 7.85	12.00 - 13.00	14.40 - 15.60	23.04 - 24.96	26.88 - 29.12
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
ISOLATION	OVERVOLTAGE PROTECTION[V]	2.80 - 4.50	4.00 - 5.50	5.75 - 7.00	8.60 - 10.50	14.35 - 17.50	17.25 - 21.00	27.60 - 33.60	32.20 - 39.20
	REMOTE SENSING	Provided							
	REMOTE ON/OFF	Provided (On both side of input and output)							
ENVIRONMENT	INPUT-OUTPUT	DC1500V 1minute, DC500V 50MW min (20 t 15°C)							
	INPUT-FG	DC1500V 1minute, DC500V 50MW min (20 t 15°C)							
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MW min (20 t 15°C)							
SAFETY	OUTPUT-RC2,RC3	AC100V 1minute, Cutoff current = 100mA, DC100V 10MW min (20 t 15°C)							
	OPERATING TEMP,HUMID.AND ALTITUDE	-20 to +85°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP,HUMID.AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
OTHERS	VIBRATION	10 - 55Hz, 49.0m/s ² (5G) 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis							
CASE SIZE/WEIGHT	AGENCY APPROVALS	UL60950, C-UL, EN60950							
	CASE SIZE/WEIGHT	61 x 12.7 x 116.8mm (W x H x D) / 180g max							
COOLING METHOD	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)							

* 1 At rated input(DC48V) and rated load.

* 2 Ripple and ripple noise is measured by using measuring board
Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN:RM101).

* 3 Drift is the change in DC output for an eight hour period at

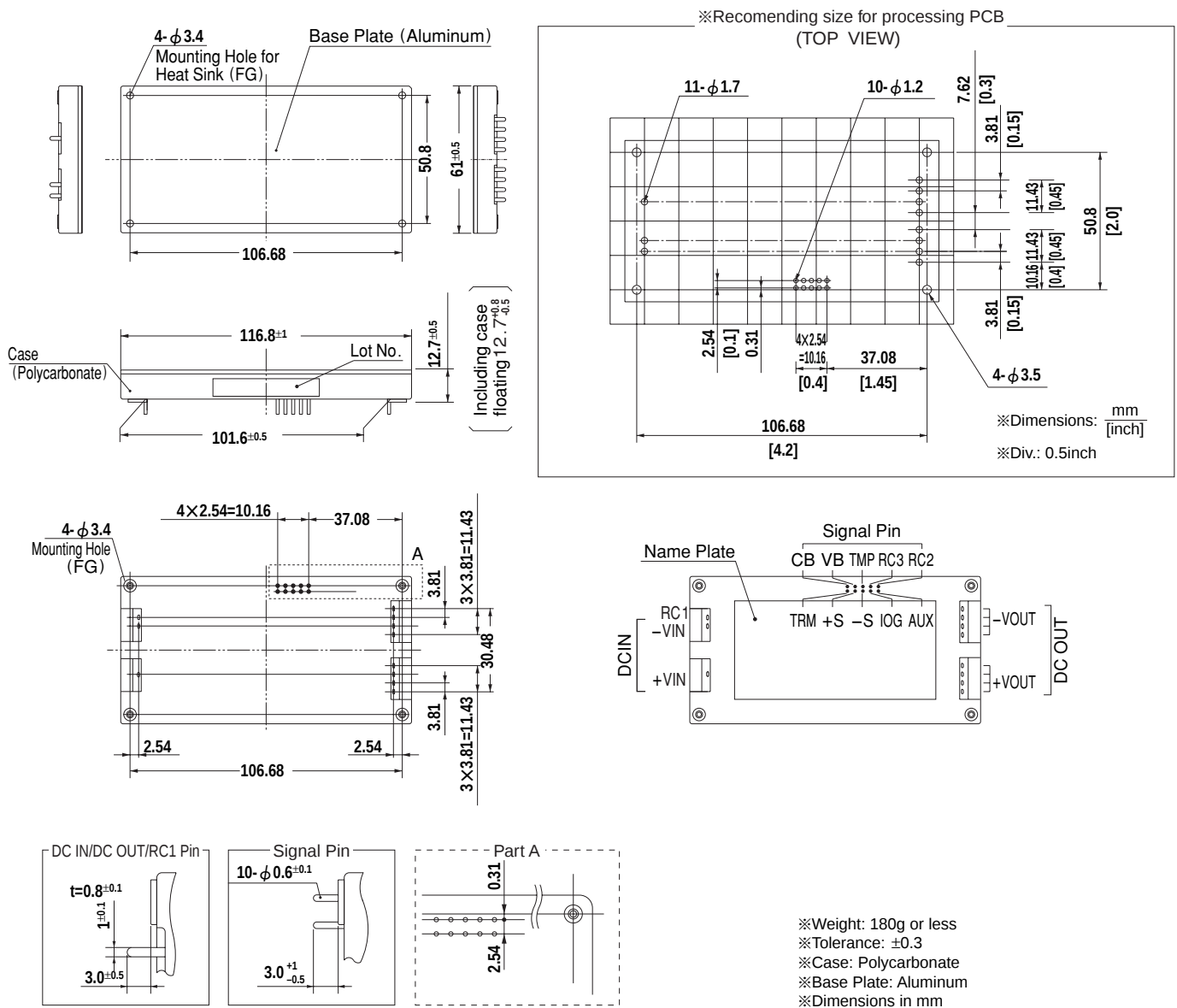
* 4 When using with in the range of 1-1.2V ,please consult with

with recommended capacitor Co & the film capacitor 0.1
lent to KEISOKU-GIKEN:RM101).

ter a half-hour warm-up with the input voltage held constant at the rated input/output.

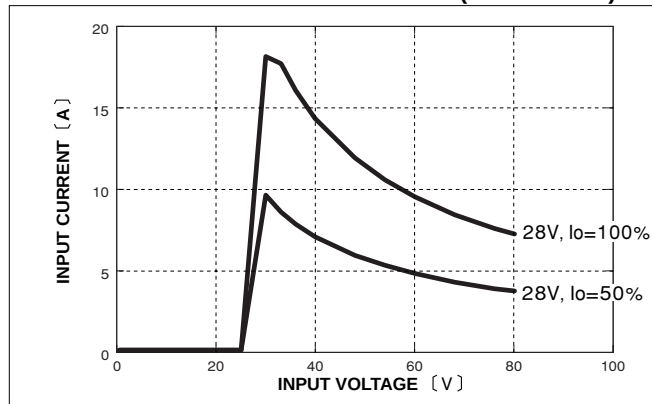
tput.

External view



Performance data

■ INPUT CURRENT CHARACTERISTICS (CDS4004828)



■ EFFICIENCY CHARACTERISTICS (CDS40048)

