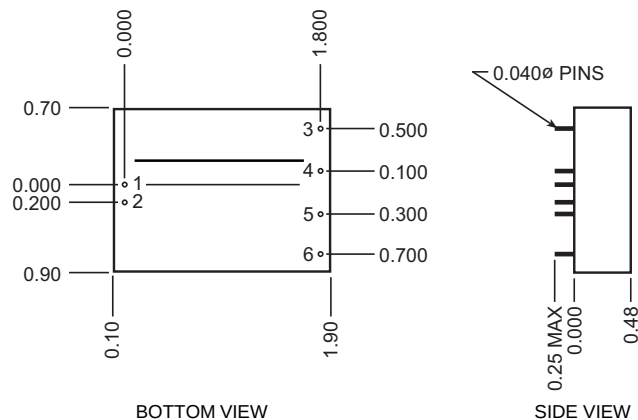


CD Series Triple Output DC/DC Converters

Model 5T5.12CD Specifications

Model		5T5.12CD		
Features		Automotive Application		
Power		9.2 Watts		
Input Parameters				
Voltage Range	min	5.0 VDC		
	typ	6.5 VDC		
	max	14.5 VDC		
Efficiency	typ	75%		
Switching Frequency	typ	100 kHz		
Output Parameters		+5V	+12V	-12V
Voltage Accuracy	min	5.10 VDC	11.76 VDC	11.76 VDC
	typ	5.20 VDC	12.00 VDC	12.00 VDC
	max	5.30 VDC	12.24 VDC	12.24 VDC
Rated Current	min	350 mA	150 mA	150 mA
	max	1000 mA	200 mA	200 mA
Load Regulation Min to Max Load	typ	0.6%	0.6%	0.6%
Line Regulation Vin = Min to Max VDC	typ	0.05%	0.2%	0.2%
Noise, 0 to 20 MHz bw	typ	60 mV p-p	10 mV p-p	10 mV p-p
	max	100 mV p-p		
General Specifications				
Isolation				
Isolation Voltage Input to Output	min	700 VDC		
Input to Output Capacitance	typ	250 pF		
Environmental				
Case Operating Temperature Range No Derating	min	0°C		
	max	90°C		
Storage Temperature Range	min	-55°C		
	max	105°C		

Model 5T5.12CD Case Dimension



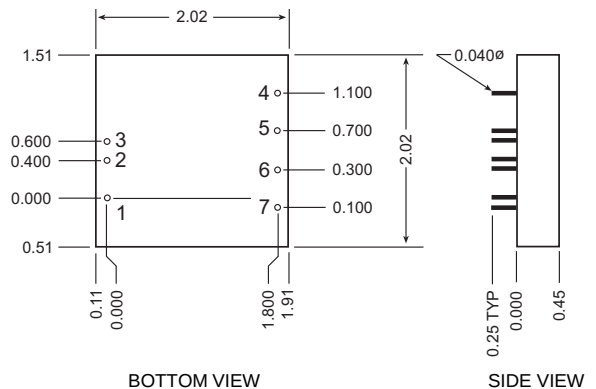
XX.XX = ±0.02
XX.XXX = ±0.005

PIN	FUNCTION
1	+INPUT
2	-INPUT
3	-12V OUTPUT
4	+12V OUTPUT
5	OUTPUT CMN
6	+5.2V OUTPUT

Model 12T5.7.12CD Specifications

Model		12T5.7.12CD		
Features		On/Off Function		
Power		13.0 Watts		
Input Parameters				
Voltage Range	min typ max	9.0 VDC 12.0 VDC 36.0 VDC		
Efficiency	typ	80%		
Switching Frequency	typ	200 kHz		
Output Parameters				
		+5V	+7V	+12V
Voltage Accuracy	min	4.90 VDC	6.27 VDC	11.95 VDC
	typ	5.00 VDC	6.57 VDC	12.20 VDC
	max	5.10 VDC	6.87 VDC	12.45 VDC
Rated Current	min	200 mA	100mA	20 mA
	max	1400 mA	500 mA	200 mA
Load Regulation Load = Min to Full Load	typ	1.5%	2.5%	2.3%
	max	2.5%	3.5%	3.5%
Line Regulation Vin = Min to Max VDC	typ	0.2%	0.4%	0.2%
	max	0.5%	0.8%	0.5%
Noise, 0 to 20 MHz bw	typ	40 mV p-p	25 mV p-p	35 mV p-p
	max	70 mV p-p	50 mV p-p	75 mV p-p
General Specifications				
On/Off Funtions				
On Logic Level	min	4 VDC		
	max	10 VDC		
Off Logic Level	min	0 VDC		
	max	1.0 VDC		
Converter Idle Current	typ	8 mA		
Isolation				
Isolation Voltage Input to Output	min	700 VDC		
I/O Capacitance	typ	400 pF		
Environmental				
Case Operating Temperature Range	min	-40°C		
	max	85°C		
Storage Temperature Range	min	-55°C		
	max	105°C		

Model 12T5.7.12CD Case Dimension



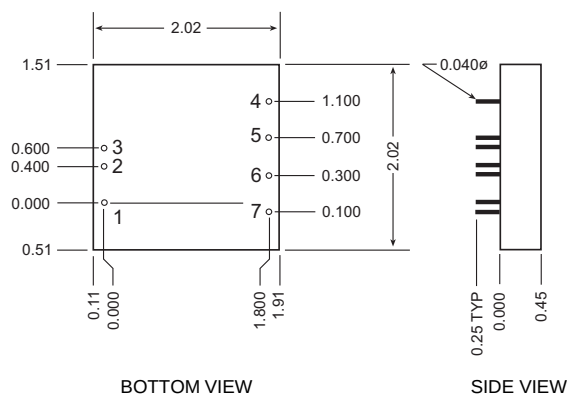
PIN	FUNCTION
1	ON/OFF
2	-INPUT
3	+INPUT
4	+12V OUTPUT
5	+5V OUTPUT
6	CMN
7	+7V OUTPUT

CD Series Triple Output DC/DC Converters

Model 48T5.15CD Specifications

Model		48T5.15CD		
Features		Wide Input Range		
Power		15.0 Watts		
Input Parameters				
Voltage Range	min typ max	18.0 VDC 48.0 VDC 72.0 VDC		
Efficiency Vin = 32V Vin = 48V Vin = 72V	typ typ typ	82.0% 80.0% 75.0%		
Switching Frequency	typ	220 kHz		
Output Parameters		+5V	+15V	-15V
Output Voltage,	min typ max	4.925 VDC 5.000 VDC 5.075 VDC	14.70 VDC 15.00 VDC 15.30 VDC	14.70 VDC 15.00 VDC 15.30 VDC
Rated Load	min max	150 mA 1500 mA	60 mA 250 mA	60 mA 250 mA
Load Regulation Load = Min to Full	typ max	1.2% 2.0%	1.2% 2.0%	2.0% 3.0%
Line Regulation Vin = Min to Max VDC	typ max	0.2% 0.5%	0.4% 1.0%	0.4% 1.0%
Noise, 0 to 20 MHz bw	typ	40 mV p-p		
General Specifications				
Isolation				
Isolation Voltage Input to Output 10µA Leakage	min	1544 VDC		
Input to Output Capacitance	typ	400 pF		
Environmental				
Case Operating Temperature Range No Derating	min max	-40°C 85°C		
Storage Temperature Range	min max	-55°C 105°C		

Model 48T5.15CD Case Dimension

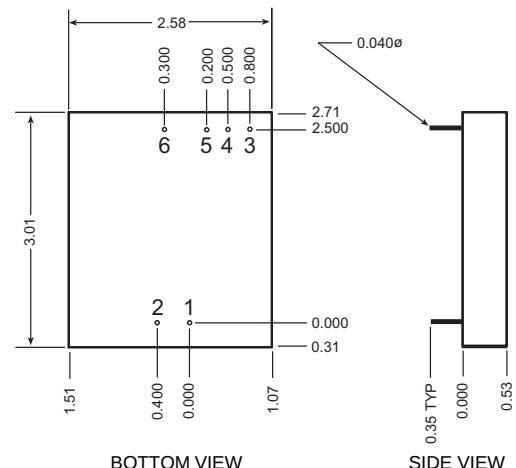


PIN	FUNCTION
1	CASE
2	-INPUT
3	+INPUT
4	+15V OUTPUT
5	+5V OUTPUT
6	CMN
7	-15V OUTPUT

Model 48T12.5CD Specifications

Model		48T12.5CD		
Features		Low Profile Case		
Power		28.5 Watts		
Input Parameters				
Voltage Range	min	18.0 VDC		
	typ	48.0 VDC		
	max	72.0 VDC		
Efficiency, Full Load	typ	83%		
Switching Frequency	typ	220 kHz		
Output Parameters		+5V	+12V	-5V
Output Voltage, Max Load	min	4.95 VDC	11.60 VDC	4.8 VDC
	typ	5.00 VDC	12.00 VDC	5.00 VDC
	max	5.05 VDC	12.40 VDC	5.20 VDC
Rated Load	min	750 mA	250 mA	75 mA
	max	3000 mA	1000 mA	300 mA
Load Regulation Load = Min to Max	typ	0.7%	1.7%	4.0%
	max	1.2%	2.5%	5.0%
Line Regulation Vin = Min to Max VDC	typ	0.1%	0.3%	0.3%
	max	0.5%	0.5%	0.5%
Noise, 0 to 20 MHz bw	typ	50 mV p-p	35 mV p-p	50 mV p-p
	max	100 mV p-p	70 mV p-p	120 mV p-p
General Specifications				
Isolation				
Isolation Voltage Input to Output	min	1544 VDC		
	typ	350 pF		
Environmental				
Case Operating Temperature Range No Derating	min	-25°C		
	max	85°C		
Storage Temperature Range	min	-40°C		
	max	105°C		

Model 48T12.5CD Case Dimension



Mechanical tolerances unless
otherwise noted:

XX.XX = ± 0.05	PIN 1
XX.XXX = ± 0.005	

PIN	FUNCTION
1	+INPUT
2	-INPUT
3	-12V
4	CMN
5	-5V
6	+5V

CD Series Triple Output DC/DC Converters

Model 12T12.5CD Specifications

Model		12T12.5CD		
Features		On/Off Function		
Power		92.5 Watts		
Input Parameters				
Voltage Range	min	10.0 VDC		
	typ	12.0 VDC		
	max	18.0 VDC		
Efficiency	typ	86%		
Switching Frequency	typ	100 kHz		
Output Parameters		+5V	+12V	-12V
Voltage Accuracy	min	4.950 VDC	11.900 VDC	11.760 VDC
	typ	5.000 VDC	12.000 VDC	12.000 VDC
	max	5.050 VDC	12.100 VDC	12.240 VDC
Rated Load Range	min	200 mA	0 mA	0 mA
	max	500 mA	7300 mA	200 mA
Load Regulation Min to Max Load	typ	0.02%		
	max	0.2%		
Min to Typ Load	typ	0.1%		
	max	0.5%		
Typ to Max Load	typ	0.2%		
	max	0.7%		
100 mA to 200 mA Load	typ	1.5%		
	max	3.0%		
Line Regulation Vin = Min to Max VDC	typ	0.02%		
	max	0.2%		
at Typical Load	typ	0.01%		
	Max	0.2%		
at Maximum Load	Max	0.5%		
Noise, 0 to 20 MHz bw +5 @ Max Load	typ	25 mV p-p		
	max	75 mV p-p		
Typical Load	typ	20 mV p-p		
	max	50 mV p-p		
Maximum Load	typ	50 mV p-p		
	max	100 mV p-p		
-12 @ Max Load	typ	20 mV p-p		
	max	50 mV p-p		
General Specifications				
Environmental				
Case Operating Temperature Range No Derating	min	-0°C		
	max	55°C		
Storage Temperature Range	min	-25°C		
	max	90°C		

Model 12T12.5CD Case Dimension

