

CD Series Single Output DC/DC Converters

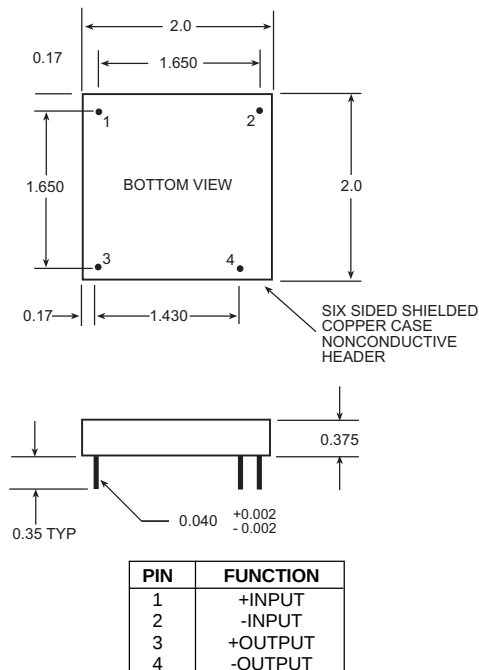
Model 15S5.135CD Specifications

Model		15S5.135CD
Features		Current Input
Power		0.675 Watts
Input Parameters		
Rated Input Current Range	min	55.0 mA
	typ	60.0 mA
	max	200.0 mA
Switching Frequency	typ	50 kHz
Output Parameters		
Output Voltage	min	4.850
	max	5.250
Rated Load	min	50 mA
	max	135 mA
Noise, 0 to 20 MHz bw	typ	20 mV p-p
	max	60 mV p-p
General Specifications		
Isolation		
Isolation Voltage 10μA Leakage	min	500 VDC
	typ	70 pF
Environmental		
Case Operating Temperature Range	min	0°C
	max	80°C
Storage Temperature Range	min	-25°C
	max	90°C

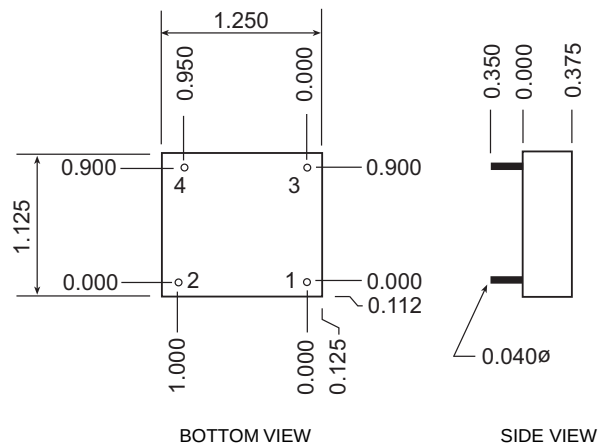
Model 5S48.65CD Specifications

Model		5S48.65CD
Features		Relay Driver
Power		3.12 Watts
Input Parameters		
Input Voltage Range	min	4.6 VDC
	typ	5.0 VDC
	max	6.5 VDC
Efficiency	typ	85%
Switching Frequency	typ	120 kHz
Output Parameters		
Output Voltage	min	47.3 VDC
	typ	48.0 VDC
	max	48.7 VDC
Rated Load	min	0 mA
	max	65 mA
Load Regulation No Load to Full Load	typ	8%
	max	12%
Line Regulation Vin = 4.6 to 6.5 VDC	typ	1.1% / %Vin
Noise, 0 to 20 MHz bw	typ	100 mV p-p
	max	150 mV p-p
General Specifications		
Isolation		
Isolation Voltage Input to Output	min	700 VDC
	typ	30 pF
Environmental		
Case Operating Temperature Range	min	-25°C
	max	85°C
Storage Temperature Range	min	-40°C
	max	105°C

Model 15S5.135CD Case Dimension



Model 5S48.65CD Case Dimension



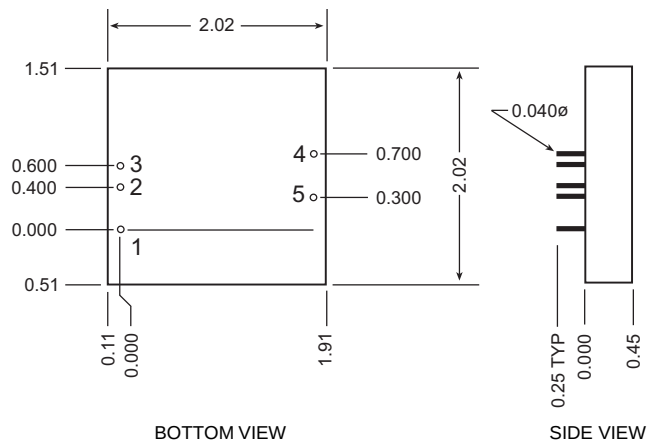
Mechanical tolerances unless otherwise noted:
X.XX = ± 0.020
X.XXX = ± 0.010

CD Series Single Output DC/DC Converters

Model 48S5.3000CD Specifications

Model		48S5.3000CD	
Features		Wide Input Range	
Power		15.0 Watts	
Input Parameters			
Input Voltage Range	min	18.0 VDC	
	typ	48.0 VDC	
	max	72.0 VDC	
Efficiency	typ	80%	
Switching Frequency	typ	220 kHz	
Output Parameters			
Output Voltage	min	4.925 VDC	
	typ	5.000 VDC	
	max	5.075 VDC	
Rated Load Range	min	500 mA	
	max	3000 mA	
Load Regulation Min to Max Load	typ	0.2%	
	max	0.4%	
Line Regulation Vin = Min to Max	typ	0.03%	
	max	0.20%	
Noise, 0 to 20 MHz bw	typ	50 mV p-p	
General Specifications			
Isolation			
Isolation Voltage Input to Output 10 μ A Leakage	min	1544 VDC	
Input to Output Capacitance	typ	400 pF	
Environmental			
Case Operating Temperature Range, No Derating	min	-40°C	
	max	85°C	
Storage Temperature Range	min	-55°C	
	max	105°C	

Model 48S5.3000CD Case Dimension

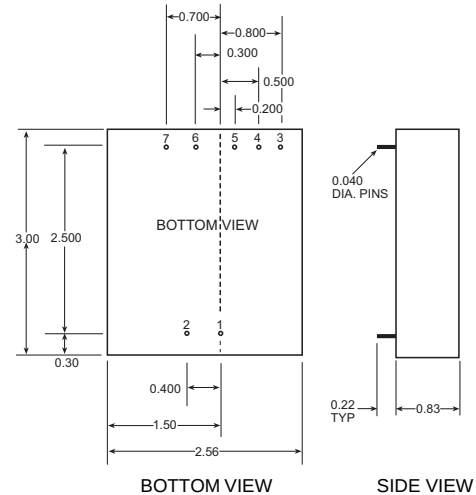


PIN	FUNCTION
1	CASE
2	-INPUT
3	+INPUT
4	+5V
5	CMN

Model 12S5.3000CD Specifications

Model		12S5.3000CD	
Features		Undervoltage Lockout	
Power		15.0 Watts	
Input Parameters			
Input Voltage Range	min	7.0 VDC	
	typ	12.0 VDC	
	max	40.0 VDC	
Switching Frequency	typ	100 kHz	
Output Parameters			
Output Voltage	min	4.950 VDC	
	typ	5.000 VDC	
	max	5.050 VDC	
Rated Load	min	0.0 mA	
	max	3000 mA	
Load Regulation 0 to 100% Full Load	typ	0.2%	
	max	0.5%	
Line Regulation Vin = Minto Max VDC	typ	0.2%	
	max	0.5%	
Noise, 0 to 20 MHz bw	typ	20 mV p-p	
	max	60 mV p-p	
General Specifications			
Environmental			
Case Operating Temperature Range	min	-25°C	
	max	80°C	
Storage Temperature Range	min	-55°C	
	max	90°C	

Model 12S5.300CD Case Dimension



PIN	FUNCTION
1	+INPUT
2	-INPUT
3	+SENSE
4	OUTPUT TRIM
5	-SENSE
6	+OUTPUT
7	CMN

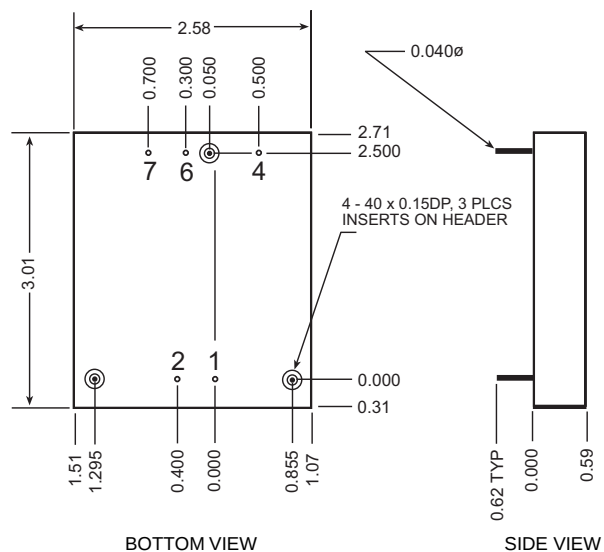
Mechanical tolerances unless otherwise noted:
X.XX = ± 0.020 inches
X.XXX = ± 0.005 inches

CD Series Single Output DC/DC Converters

Model 24S8.2500CD Specifications

Model		24S8.2500CD
Features		Low Profile Case
Power		20.0 Watts
Input Parameters		
Input Voltage Range	min typ max	18.0 VDC 24.0 VDC 32.0 VDC
Efficiency	typ	85%
Switching Frequency	typ	110 kHz
Output Parameters		
Output Voltage	min typ max	7.920 VDC 8.000 VDC 8.080 VDC
Rated Current	min max	100 mA 2500 mA
Load Regulation, 0 to 100%	typ max	0.1% 0.5%
Line Regulation Vin = Min To Max VDC	typ max	0.05% 0.2%
Noise, 0 to 20 MHz bw	typ max	30 mV p-p 60 mV p-p
General Specifications		
Isolation		
Isolation Voltage Input to Output	min	700 VDC
Input to Output Capacitance	typ	80 pF
Environmental		
Case Operating Temperature Range	min max	-25°C 85°C
Storage Temperature Range	min max	-55°C 100°C

Model 24S8.2500CD Case Dimension



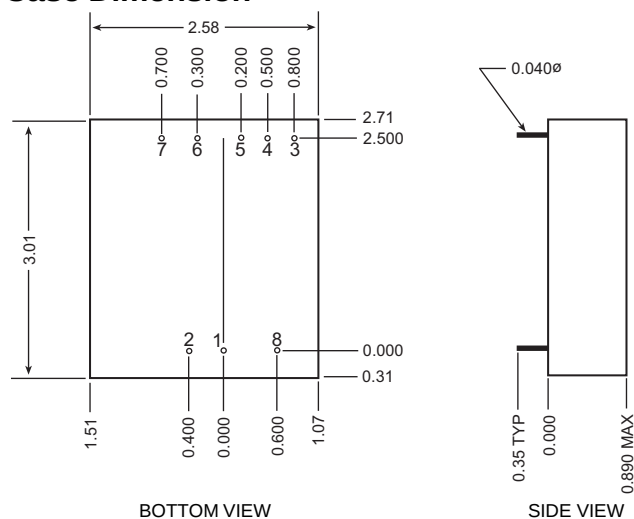
Mechanical tolerances unless otherwise noted:
 X.XX = ±0.020 inches
 X.XXX = ±0.005 inches
 Seal around terminals is not hermetic.
 Do not immerse units in any liquid.

PIN	FUNCTION
1	+INPUT
2	-INPUT
4	N/C
6	+B OUT
7	CMN

Model 48S8.3000CD Specifications

Model		48S8.3000CD
Features		On/Off Function
Power		24.0 Watts
Input Parameters		
Input Voltage Range	min typ max	30.0 VDC 48.0 VDC 60.0 VDC
Efficiency	typ	80%
Switching Frequency	typ	220 kHz
Output Parameters		
Output Voltage	min typ max	7.920 VDC 8.000 VDC 8.080 VDC
Rated Current	min max	0 mA 3000 mA
Load Regulation, 0 to 100%	typ max	0.05% 0.5%
Line Regulation Vin - Min to Max VDC	typ max	0.05% 0.5%
Noise, 0 to 20 MHz bw	typ max	25 mV p-p
General Specifications		
Isolation		
Isolation Voltage Input to Output	min	700 VDC
Environmental		
Case Operating Temperature Range No Derating	min max	-25°C 85°C
Storage Temperature Range	min max	-55°C 100°C

Model 48S8.3000CD Case Dimension



Mechanical tolerances unless otherwise noted:
 X.XX = ±0.020
 X.XXX = ±0.005

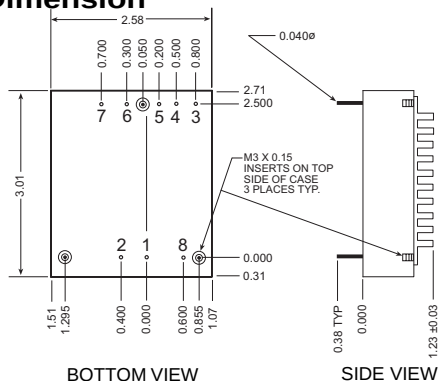
PIN	FUNCTION
1	+INPUT
2	-INPUT
3	+SENSE
4	OUTPUT TRIM
5	-SENSE
6	+OUTPUT
7	OUTPUT CMN
8	ON/OFF

CD Series Single Output DC/DC Converters

Model 12S5.7000CD Specifications

Model		12S5.7000CD
Features		Automotive Application
Power		35.0 Watts
Input Parameters		
Input Voltage Range	min typ max	4.0 VDC 12.0 VDC 18.0 VDC
Efficiency Vin = 12 VDC, 100% Load	typ	73%
Switching Frequency	typ	170 kHz
Output Parameters		
Output Voltage	min typ max	4.950 VDC 5.000 VDC 5.050 VDC
Rated Load	min max	0 mA 7000 mA
Load Regulation 25% to 100% Full Load	typ max	0.02% 0.1%
Line Regulation		
Vin = 8 to 18 VDC, Load = 7A	typ max	0.04% 0.2%
Vin = 4 to 18 VDC, Load = 4A	typ max	0.04% 0.4%
Vin = 4.5 to 8 VDC, Load = 7A	typ max	0.2% 2.0%
Vin = 4 to 8 VDC, Load = 7A	typ max	0.5% 5.0%
Noise, 0 to 20 MHz bw	typ	40 mV p-p
General Specifications		
Isolation		
Isolation Voltage	min	700 VDC
Input to Output 10µA Leakage		
Input to Output Capacitance	typ	500 pF
Environmental		
Case Operating Temperature Range	min max	-40°C 85°C
Storage Temperature Range	min max	-55°C 100°C

Model 12S5.7000CD Case Dimension



PIN	FUNCTION
1	+INPUT
2	-INPUT
3	+SENSE
4	TRIM
5	-SENSE
6	+OUTPUT
7	CMN
8	ON/OFF

Mechanical tolerances unless
otherwise noted:
X.XX = ±0.020 inches
X.XXX = ±0.005 inches