

CD Series Single Output DC/DC Converters

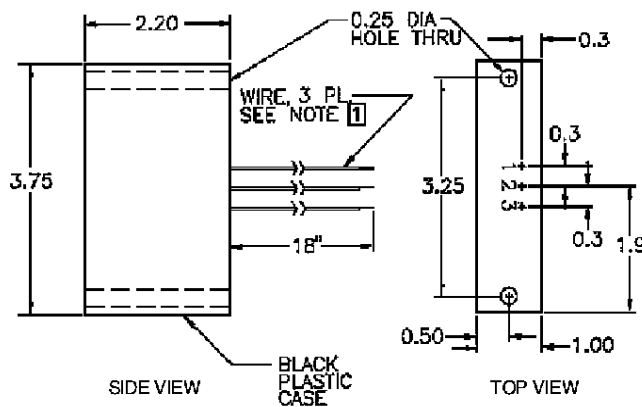
Model 3S6.35CD Specifications

Model		3S6.35CD
Features		Current Input
Power		0.24 Watts
Input Parameters		
Rated Input Current Range	min	135.0 mA
	typ	150.0 mA
	max	150.0 mA
Switching Frequency	typ	42 kHz
Output Parameters		
Output Voltage	min	6.664 VDC
	typ	6.800 VDC
	max	6.936 VDC
Rated Load	typ	0 mA
	max	35 mA
General Specifications		
Environmental		
Case Operating Temperature Range No Derating	min	-30°C
	max	70°C
Storage Range	min	-35°C
	max	90°C

Model 24S250.1CD Specifications

Model		24S250.1CD
Features		High Output Voltage
Power		0.25 Watts
Input Parameters		
Input Voltage Range	min	22.80 VDC
	typ	24.00 VDC
	max	25.20 VDC
Switching Frequency	typ	50 kHz
Output Parameters		
Output Voltage 100% Load	min	245.0 VDC
	typ	250.0 VDC
	max	255.0 VDC
Rated Load	min	0 mA
	max	1.0 mA
Load Regulation	typ	0.02%
	max	0.15%
Line Regulation	typ	0.02%
	max	0.15%
Noise	typ	50 mV p-p
	max	125 mV p-p
General Specifications		
Isolation		
Isolation Voltage Input to Output 10µA Leakage	min	500 VDC
Environmental		
Case Operating Temperature Range	min	-25°C
	max	80°C
Storage Temperature Range	min	-40°C
	max	85°C

Model 3S6.35CD Case Dimension



Mechanical tolerances unless otherwise noted:

X.X = ±0.1 inches

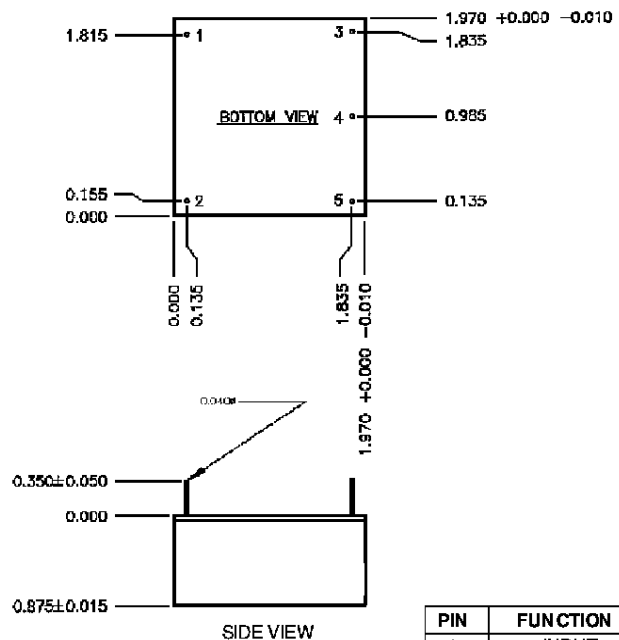
X.XX = ±0.05 inches

Units are sealed with an epoxy resin.

- 1 22AWG stranded wire, UL1007 or equivalent.
Ends are stripped 1/4" and tinned.

WIRE	FUNCTION	COLOR
1	+INPUT	GRAY
2	CMN	BLACK
3	+OUTPUT	RED

Model 24S250.1CD Case Dimension



NOTE: Tolerances from pin to pin is ±0.005
Tolerance pin to case edge is ±0.010

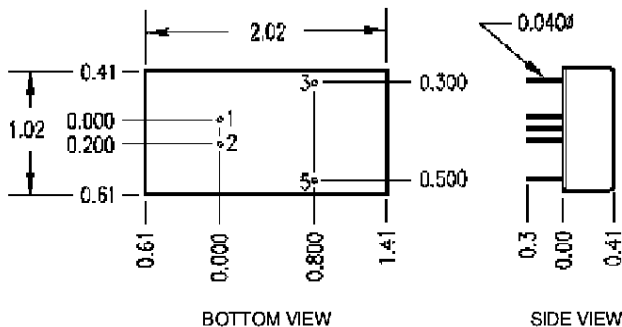
PIN	FUNCTION
1	+INPUT
2	-INPUT
3	+OUTPUT
4	NO PIN
5	-OUTPUT

CD Series Single Output DC/DC Converters

Model 12S7.500CD Specifications

Model		12S7.500CD
Features		Wide Input Range
Power		3.5 Watts
Input Parameters		
Input Voltage Range	min typ max	9.0 VDC 12.0 VDC 36.0 VDC
Efficiency	typ	79%
Switching Frequency	typ	220 kHz
Output Parameters		
Output Voltage	min typ max	6.860 VDC 7.000 VDC 7.140 VDC
Rated Load	min max	100 mA 500 mA
Load Regulation	typ	0.03%
Min to Max Load	max	0.1%
Line Regulation	typ	0.01%
Vin = Min to Max VDC	max	0.1%
Noise, 0 to 20 MHz bw	typ max	25 mV p-p 80 mV p-p
General Specifications		
Isolation		
Input to Output	min	700 VDC
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 105°C

Model 12S7.500CD Case Dimension



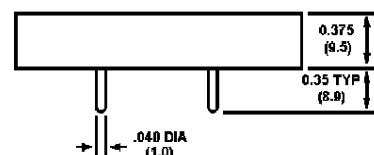
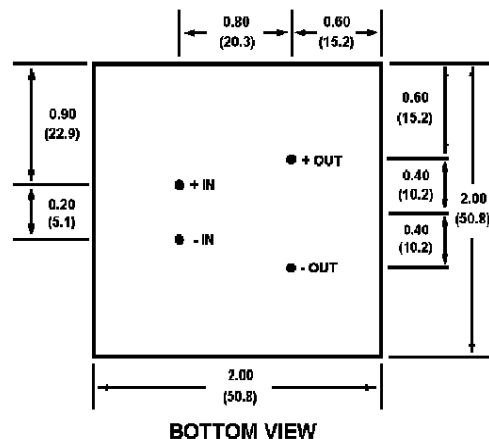
Mechanical tolerances unless otherwise noted:
X.XX = ±0.020
X.XXX = ±0.005

PIN	FUNCTION
1	+INPUT
2	-INPUT
3	+OUTPUT
5	CMN

Model 48S17.300CD Specifications

Model		48S17.300CD	
Features		Low Output Noise	
Power		5.1 Watts	
Input Parameters			
Input Voltage Range	min	44.0 VDC	
	typ	48.0 VDC	
	max	52.0 VDC	
Switching Frequency	typ	55 kHz	
Output Parameters			
Output Voltage	min	16.900 VDC	
	typ	17.000 VDC	
	max	17.100 VDC	
Rated Load	min	0 mA	
	max	300 mA	
Load Regulation IL = 0 to 300 mA	typ	0.05%	
	max	0.2%	
Line Regulation Vin = 44 to 52 VDC	typ	0.05%	
	max	0.1%	
Noise	typ	10 mV p-p	
	max	40 mV p-p	
General Specifications			
Isolation			
Isolation Voltage 10 μ A Leakage	min	500 VDC	
	typ	75 pF	
Input to Input Capacitance	typ	75 pF	
Environmental			
Case Operating Temperature Range No Derating	min	-25°C	
	max	80°C	
Storage Temperature Range	min	-55°C	
	max	90°C	

Model 48S17.300CD Case Dimension



CD Series Single Output DC/DC Converters

Model 5S12.500CD Specifications

Model		5S12.500CD
Features		Low Output Noise
Power		6.0 Watts
Input Parameters		
Input Voltage Range	min	4.75 VDC
	typ	5.00 VDC
	max	5.25 VDC
Switching Frequency	typ	30 kHz
Output Parameters		
Output Voltage	min	11.900 VDC
	typ	12.000 VDC
	max	12.100 VDC
Rated Load	min	0 mA
	max	500 mA
Load Regulation IL = 0 to 500 mA	typ	0.05%
	max	0.2%
Line Regulation Vin = 4.75 to 5.25 VDC	typ	0.05%
	max	0.2%
Noise, 0 to 20 MHz bw	typ	10 mV p-p
	max	40 mV p-p
General Specifications		
Isolation		
Isolation Voltage 10 μ A Leakage	min	500 VDC
	typ	75 pF
Environmental		
Case Operating Temperature Range	min	-25°C
	max	75°C
Storage Temperature Range	min	-55°C
	max	90°C

Model 5S12.500CD Case Dimension

