

DC/DC Converters – S3- DS/SS, S3-D/S

2 WATT

Single / Dual Output

FEATURES

- 7 Pin SIL / 14 Pin DIL Package
- 1000 Vdc Isolation
- Low Ripple and Noise
- Up to 6000 VDC Isolation
- Non-Conductive Black Plastic Case

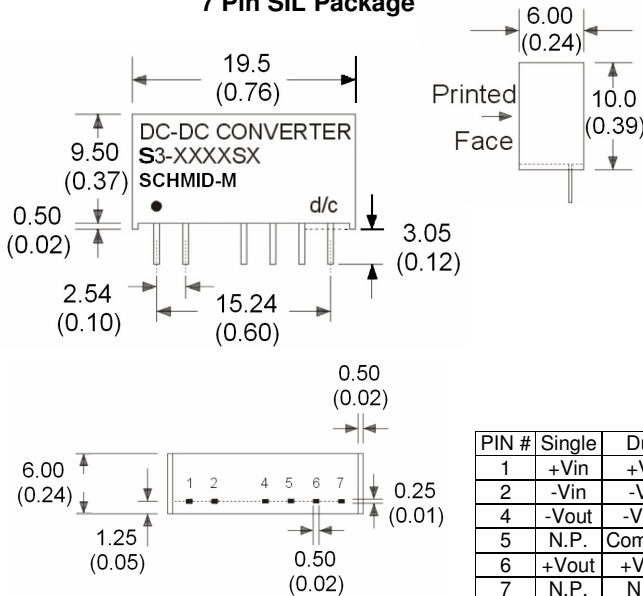
Input specifications:	
Filter:	Capacitors
Voltage Range	±10%
Isolation specification:	
Rated Voltage	1000 Vdc, Standard
Resistance	1000M Ω Min.
Capacitance	60 pF, Typ.
Output specifications:	
Voltage accuracy	±3%, Max
Voltage Balance	±1%
Ripple & noise (at 20MHz BW))75 mVpk-pk
Short Circuit Protection	Momentary
Line regulation	±1.2%/1% of Vin
Load regulation	±10%, Load=20~100%
Temperature coefficient	±0.02%/°C
General Specifications:	
Efficiency	Up to 82%
Switching Frequency	Variable 80kHz
Enviromental specifications:	
Operating Temperature	-40°C ~ +85°C
Case temperature	100°C Max.
Storage Temperature	-40°C ~ +125°C
Humidity	95%
Cooling	Nature Convection

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
S3-053R3D/S	5	±3.3	±200	65
S3-0505D/S		±5	±200	72
S3-057R2D/S		±7.2	±138.8	72
S3-0509D/S		±9	±111.1	77
S3-0512D/S		±12	±83.3	78
S3-0515D/S		±15	±66.67	80
S3-0518D/S		±18	±55.55	80
S3-0524D/S	±24	±41.67	80	
S3-053R3DS/SS	5	3,3	400	72
S3-0505DS/SS		5	400	78
S3-057R2DS/SS		7,2	277,7	80
S3-0509DS/SS		9	222,2	80
S3-0512DS/SS		12	166,7	82
S3-0515DS/SS		15	133,3	82
S3-0518DS/SS		18	111,1	82
S3-0524DS/SS	24	83,3	82	
S3-123R3D/S	12	±3,3	±200	67
S3-1205D/S		±5	±200	75
S3-127R2D/S		±7,2	±138,8	76
S3-1209D/S		±9	±111,1	77
S3-1212D/S		±12	±83,3	82
S3-1215D/S		±15	±66,67	82
S3-1218D/S		±18	±55,55	82
S3-1224D/S	±24	±41,67	82	
S3-123R3DS/SS	12	3,3	400	65
S3-1205DS/SS		5	400	77
S3-127R2DS/SS		7,2	277,7	80
S3-1209DS/SS		9	222,2	80
S3-1212DS/SS		12	166,7	82
S3-1215DS/SS		15	133,3	82
S3-1218DS/SS		18	111,1	80
S3-1224DS/SS	24	83,3	80	
S3-243R3D/S	24	±3,3	±200	68
S3-2405D/S		±5	±200	75
S3-247R2D/S		±7,2	±138,8	75
S3-2409D/S		±9	±111,1	80
S3-2412D/S		±12	±83,3	82
S3-2415D/S		±15	±66,67	82
S3-2418D/S		±18	±55,55	82
S3-2424D/S	±24	±41,67	82	
S3-243DS/SS	24	3,3	400	72
S3-2405DS/SS		5	400	79
S3-247R2DS/SS		7,2	277,7	80
S3-2409DS/SS		9	222,2	80
S3-2412DS/SS		12	166,7	80
S3-2415DS/SS		15	133,3	82
S3-2418DS/SS		18	111,1	82
S3-2424DS/SS	24	83,3	80	

Input Voltage is from 5V to 48V and output Voltage is from 3.3 to 24V.

MECHANICAL DIMENSIONS & PIN CONNECTIONS

7 Pin SIL Package



PIN #	Single	Dual	Single-H	Dual-H
1	+Vin	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin	-Vin
4	-Vout	-Vout	N.P.	N.P.
5	N.P.	Common	-Vout	-Vout
6	+Vout	+Vout	N.P.	Common
7	N.P.	N.P.	+Vout	+Vout

14 Pin DIL Package

