

Stand: 31/09

**Unregulated  
Dual Output  
SMD Case: SO18 package**

## COMMERCIAL DC/DC Converters

**1 Watt / 2 Watt  
Series: SD18**

### Electrical specifications:

Input Voltage Range:	+/- 10%
Input Filter:	capacitor
Output Voltage Accuracy:	+/- 5% **
Line Voltage Regulation:	+/-1,2% / 1% of Vin max.
Load Voltage Regulation:	1,8V, 3,3V output types 20% max.
(10% to 100% full load):	5V output type 15% max.
	9V ~ 24V output types 10% max.
Ripple & Noise/@20MHz BW:	1W max. 100mVp-p 2W max. 150mVp-p
Reflow Temperature:	245°C (30sec) max.

Efficiency at Full Load:	min. 70%
Isolation Voltage:	min. 1000V DC min. 2000V DC min. 3000V DC
Optional Part-No.: /H2	min. 3000V DC
Optional Part-No.: /H3	1.0 second
Short Circuit Protection:	continuous
Optional Part-No.: /S	-40°C to +85°C
Operating Temp. Range:	-55°C to +125°C
Storage Temp. Range:	
Part-No.: /2	0,25W
Part-No.: /5	0,5W
with marking /X denotes with ten pins	

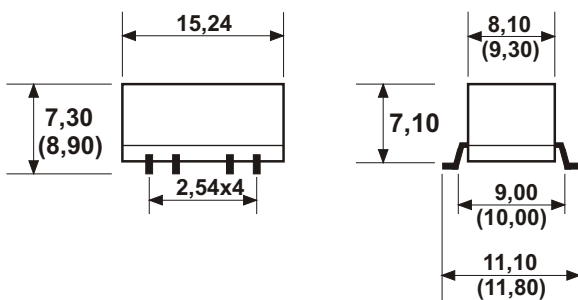
\*\* Note: Measured @25°C with the condition of Vin = nominal and full load

**CAUTION: NO INPUT POLARITY CHANGE ALLOWED!**

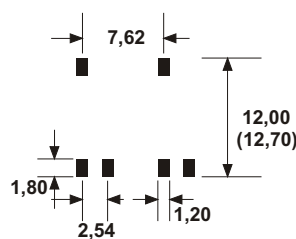
1 Watt				2 Watt			
Part-No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Part-No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
SD18-xx01,8D 1W	1,8, 3,3, 5, 9, 12, 15, 24	± 1,8	± 278	SD18-xx03,3D 2W	5, 9, 12, 15, 24	± 3,3	± 152
SD18-xx03,3D 1W	1,8, 3,3, 5, 9, 12, 15, 24	± 3,3	± 152	SD18-xx05D 2W	5, 9, 12, 15, 24	± 5	± 100
SD18-xx05D 1W	1,8, 3,3, 5, 9, 12, 15, 24	± 5	± 100	SD18-xx09D 2W	5, 9, 12, 15, 24	± 9	± 56
SD18-xx09D 1W	1,8, 3,3, 5, 9, 12, 15, 24	± 9	± 56	SD18-xx12D 2W	5, 9, 12, 15, 24	± 12	± 42
SD18-xx12D 1W	1,8, 3,3, 5, 9, 12, 15, 24	± 12	± 42	SD18-xx15D 2W	5, 9, 12, 15, 24	± 15	± 33
SD18-xx15D 1W	1,8, 3,3, 5, 9, 12, 15, 24	± 15	± 33	SD18-xx24D 2W	5, 9, 12, 15, 24	± 24	± 21
SD18-xx24D 1W	1,8, 3,3, 5, 9, 12, 15, 24	± 24	± 21				

**Any other input or output voltages available**

### Mechanical Specifications:

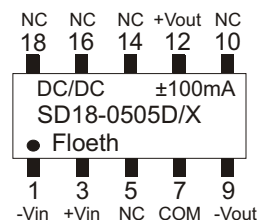
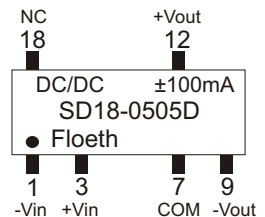


### Footprint:



ALL DIMENSIONS IN MM  
(x,yy) 2Watt Type  
Tolerance +/-0,25mm  
All pins on a 2,54mm pitch.  
Dot marks Pin 1

### PIN CONNECTION:



Specification may be changed without notice  
please contact office for verification

We can offer EMC - Filter  
according to EN55011/22 Class B.