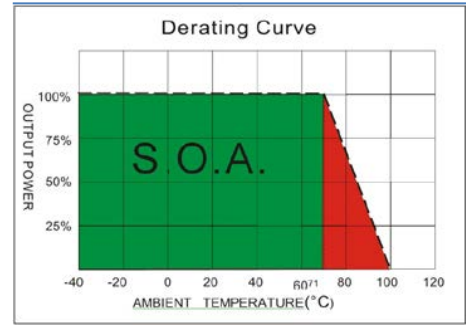
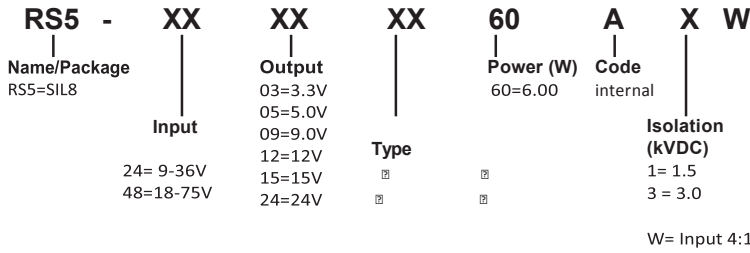


RS5-RD60W

NUMBER STRUCTURE



MODEL SELECTION GUIDE

MODEL NUMBER	INPUT Voltage Range (Vdc)	INPUT Current		OUTPUT Voltage (Vdc)	OUTPUT Current		EFFICIENCY @FL (% , typ.)	Capacitor Load @FL (µF , max.)
		No-Load (mA, max.)	Full Load (mA, typ.)		Min. load (mA)	Full load (mA)		
RS5-2403RD60A1W	9-36	6	261	3.3	0	1500	79	4700uF
RS5-2405R60A1W	9-36	6	298	5	0	1200	84	2200uF
RS5-2409R60A1W	9-36	6	290	9	0	666	86	1000uF
RS5-2412R60A1W	9-36	6	287	12	0	500	87	470uF
RS5-2415R60A1W	9-36	6	287	15	0	400	87	220uF
RS5-2424R60A1W	9-36	6	287	24	0	250	87	100uF
RS5-2405RD60A1W	9-36	6	298	±5	0	±600	84	±330uF
RS5-2412RD60A1W	9-36	6	291	±12	0	±250	86	±220uF
RS5-2415RD60A1W	9-36	6	287	±15	0	±200	87	±100uF
RS5-4803RD60A1W	18-75	6	131	3.3	0	1500	79	4700uF
RS5-4805R60A1W	18-75	6	151	5	0	1200	83	2200uF
RS5-4809R60A1W	18-75	6	147	9	0	666	85	1000uF
RS5-4812R60A1W	18-75	6	144	12	0	500	87	470uF
RS5-4815R60A1W	18-75	6	144	15	0	400	87	220uF
RS5-4824R60A1W	18-75	6	144	24	0	250	87	100uF
RS5-4805RD60A1W	18-75	6	152	±5	0	±600	82	±330uF
RS5-4812RD60A1W	18-75	6	147	±12	0	±250	85	±220uF
RS5-4815RD60A1W	18-75	6	145	±15	0	±200	86	±100uF

Suffix "H" means 3KVdc isolation

NOTE

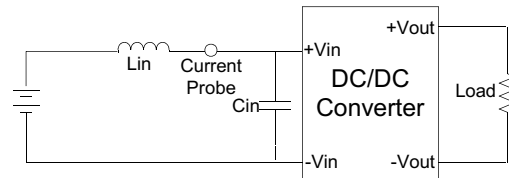
- One load is 25% to 100% load, the other load is 100% load, the output voltage variable rate is within ±5%.
- Measured with a 0.1µF ceramic capacitor.
- Test by minimal Vin and constant resistive load.
- Test by normal Vin and 100%-25% load,25% load step change.
- Measured Input reflected ripple current with a simulated source inductance of 12µH and a source capacitor Cin(47µF, ESR<1.0Ω at 100K).
- "Nature Convection" is usually about 30-65 LFM but is not equal to still air (0 LFM).
- Exceeding the absolute ratings of the unit could cause damage. It's not allowed for continuous operating ratings.
- Input filter components are required to help meet conducted emission class A, which application refer to the EMI Filter of design & feature configuration.
- An external filter capacitor is required if the module has to meet IEC61000-4-4 and IEC61000-4-5.
The filter capacitor RSG suggest: 24Vin models : Nippon - chemi - con KY series, 330uF/100V and a TVS,3KW,75V.
48Vin models : Nippon - chemi - con KY series, 470uF/100V and a TVS,3KW,130V.

Rev.01

STAND D02

Input Reflected Ripple Current Test Step

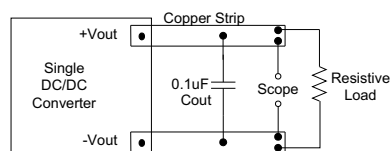
Input reflected ripple current is measured through a source inductor L_{in} ($12\mu H$) and a source capacitor C_{in} ($47\mu F$, $ESR < 1.0\Omega$ at $100KHz$) at nominal input and full load.



TEST CONFIGURATIONS

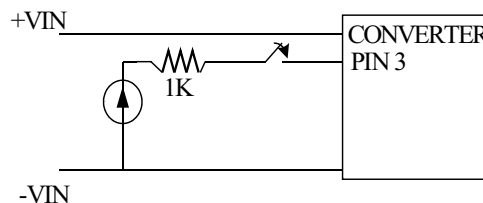
Output Ripple & Noise Measurement Test

Use a capacitor C_{out} ($0.1\mu F$) measurement.
The Scope measurement bandwidth is $0-20MHz$.



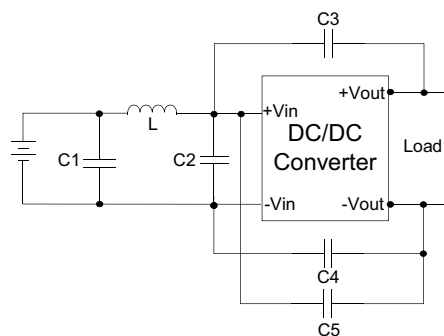
CTRL Module ON / OFF

ON: open or high impedance
OFF: 2-4mA input current (via 1K)



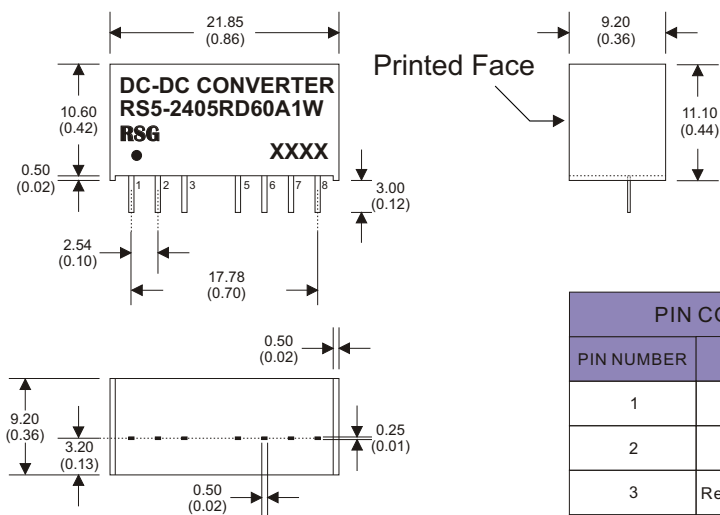
EMI Filter

Input filter components ($C1, C2, C3, C4, C5, L$) are used to help meet conducted emissions requirement for the module. These components should be mounted as close as possible to the module; and all leads should be minimized to decrease radiated noise.



	C1 & C2	L	C3 & C4	C5
RS5 24V in	MLCC 10uF/35V	12uH	MLCC 470pF/3KV	
RS5 48V in	MLCC 2.2uF/100V	12uH	MLCC 1000pF/3KV	MLCC 1000pF/3KV

MECHANICAL SPECIFICATIONS



8 Pin SIL Package

- Notes : All dimensions are typical in millimeters (inches).
1. Pin diameter: 0.5 ± 0.05 (0.02 ± 0.002)
 2. Pin pitch and length tolerance: ± 0.35 (± 0.014)
 3. Pin to case tolerance: ± 0.5 (± 0.02)
 4. Case Tolerance: ± 0.5 (± 0.02)
 5. Stand-off tolerance: ± 0.1 (± 0.004)

PIN CONNECTIONS		
PIN NUMBER	SINGLE	DUAL
1	-V Input	-V Input
2	+V Input	+V Input
3	Remote On/Off	Remote On/Off
5	N.C.	N.C.
6	+V Output	+V Output
7	-V Output	Common
8	N.C.	-V Output

PIN CONNECTIONS		
PIN NUMBER	SINGLE + H	DUAL + H
1	-V Input	-V Input
2	+V Input	+V Input
3	Remote On/Off	Remote On/Off
5	N.P.	N.P.
6	+V Output	+V Output
7	-V Output	Common
8	N.C.	-V Output

The models listed above are standard types. If you need special specifications or have questions regarding packing (Tube or Tape&Reel) or need application support, please contact our specialists: sales@rsg-electronic.de or +49 69-984047-0