

R1SX-1205 (extension)



The R1SX is a low cost, 1W, low profile, open-frame, SMD isolated DC/DC converter. It is available with 3.3V, 5V, and (with this extension) 12V inputs and offers a single unregulated 3.3V or 5V output. There is no minimum load requirement, and the quiescent consumption is less than 150mW. Isolation is 1kVDC or 3kVDC, and the operating temperature range is -40°C up to +100°C (without derating). The industry standard pin-out is compatible with the R1S series, but at half the height. The converter is fully certified to IEC/EN/UL62368-1 and 60950-1 and is 10/10 RoHS-conform. Class B EMC conformity can be reached with a simple external LC filter.

Unique selling proposition:	1W DC/DC converter in SMD package // very low profile <6mm // 20% lighter for high shock and vibration resistance // 1 or 3kVDC/sec isolation // operating temperature range -40°C to +100°C @ full load // industry standard pinout // 0% minimum load // high efficiency and capacitive load capability (2200µF)
Target customer:	General purpose DC/DC isolation (bus isolators, earth-loop breakers, noise and interference blockers) // multi-channel test & measurement applications // motor controls // industrial automation
Main features:	1W DC/DC converter in SMD package // 1 or 3kVDC/sec isolation // 78% efficiency // operating temperature range -40°C to +100°C @ full load // pin-compatible with R1S series // 3 year warranty
Web release date:	19-Feb-2020
Available from sample stock:	R1SX-1205-R

RS12-Z



The RS12-Z is an advanced DC/DC converter that uses planar transformer technology to offer a very high power density, 4:1 input voltage, regulated DC output with 3kVDC isolation and a wide operating temperature range of -40°C to +75°C (without derating and with convection cooling only). The SIP8 pinout is backwards compatible with our RS6 (6W) and RS3 (3W) offering the option of 3W, 6W or 12W of output power in the same sized package, the difference being that the RS12 uses a metal case. Additional features such as UVLO, CTRL pin, trimmable outputs and simple EMC filtering round off this versatile DC/DC converter which is also UL/IEC/EN 62368-1 safety certified with CB report.

Unique selling proposition:	12W in a SIP 8 package – highest power rating in this package // wide 4:1 input voltage range // 75°C at full load // trimmable outputs // control pin // IEC/EN/UL62368-1 certified // pin-compatible with RS3 and RS6 series for easy power upgrade from 3 or 6W to 12W
Target customer:	Battery powered equipment // test & measurement applications // high power density applications // space constrained circuits // regulated DC/DC power supplies // demanding industrial applications
Main features:	12W DC/DC converter in a SIP8 package // typical efficiency up to 89% // -40 to +75°C with natural convection and without derating // control and trim functions // 3 year warranty
Web release date:	24-Feb-2020
Available from sample stock:	RS12-243.3SZ; RS12-2405SZ; RS12-2412SZ; RS12-2415SZ; RS12-2424SZ; RS12-483.3SZ; RS12-4805SZ; RS12-4812SZ;