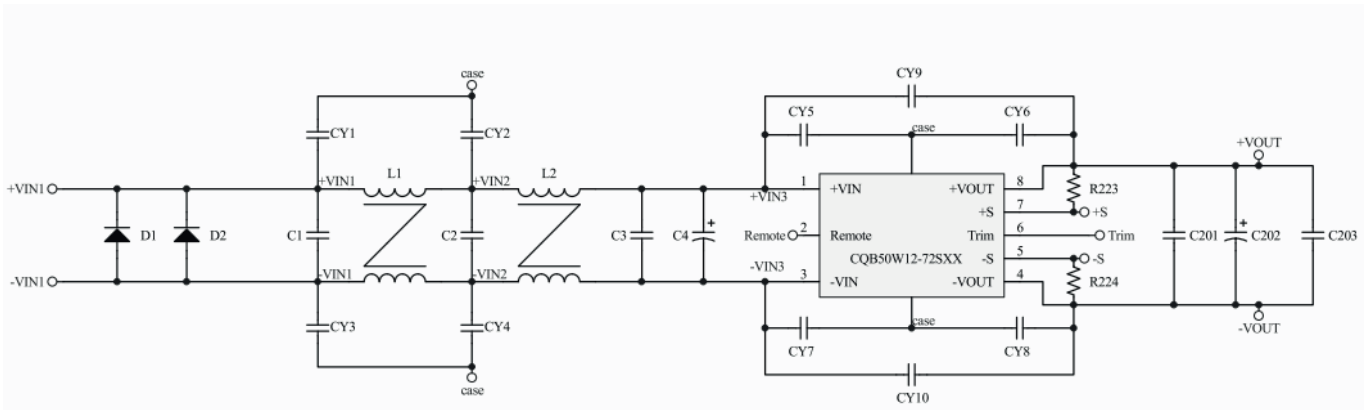
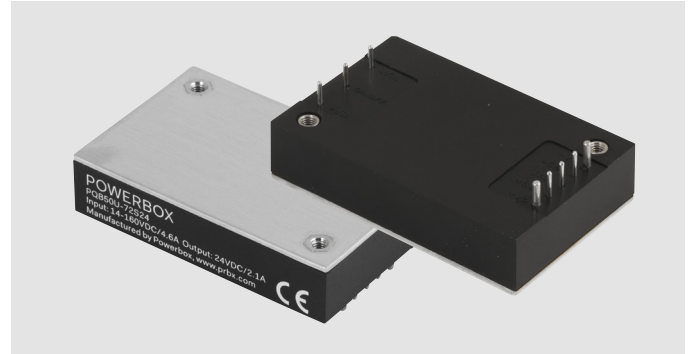


P R B X

POWERBOX Industrial Line
 PQB50U-72S Series
 30-50W 12:1 Single Output
 DC/DC Converter
 Application Note – Recommended External Filter

Recommended filter design

Recommended circuit diagram for PQB50U-72S12 quarter brick to reach compliance with EN55022 Class A requirements.



Bill of materials for PQB50U-72S12 EN55022 Class A circuit

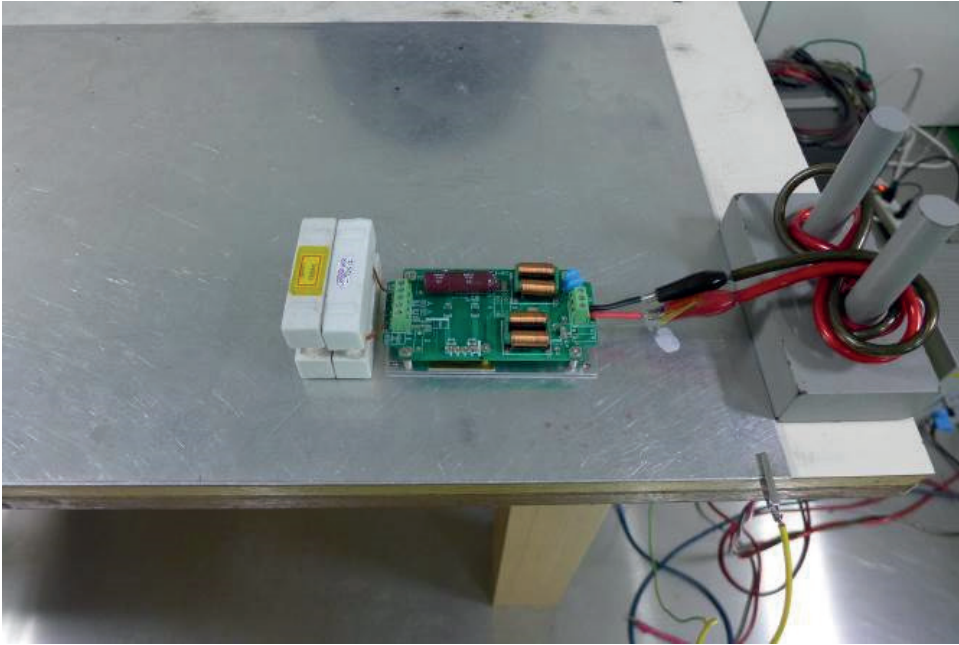
L1,L2	URT24-050055H	5.5mH
C1,C2,C3	1uF/250V 1812	Ceramic Cap.
C4	82uF/400V KMG Series	Aluminum Cap.
CY1,CY3	NC	
CY2	Y1	1500pF
CY4	Y1	1500pF
CY5,CY7	NC	
CY6	NC	
CY8	NC	
CY9,CY10	NC	
R223,R224	0R 1206	

POWERBOX Industrial Line
PQB50U-72S Series
30-50W 12:1 Single Output
DC/DC Converter
Application Note – Recommended External Filter

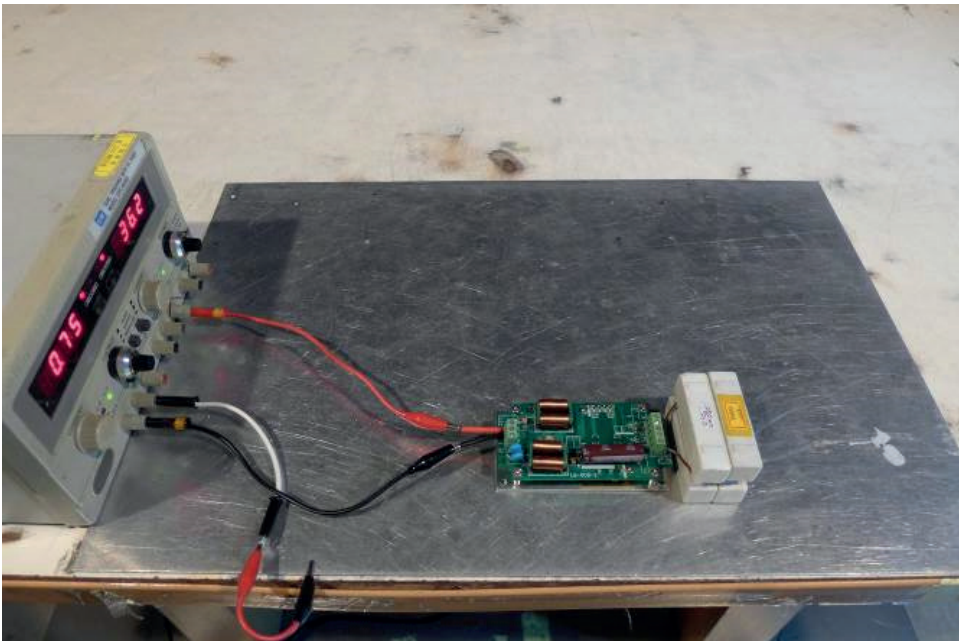
Verification test conditions

Test conditions: I/P: 72VDC (Nominal), O/P: Full Load

Conducted emission test setup



Radiated emission test setup



POWERBOX Industrial Line
PQB50U-72S Series
30-50W 12:1 Single Output
DC/DC Converter
Application Note – Recommended External Filter

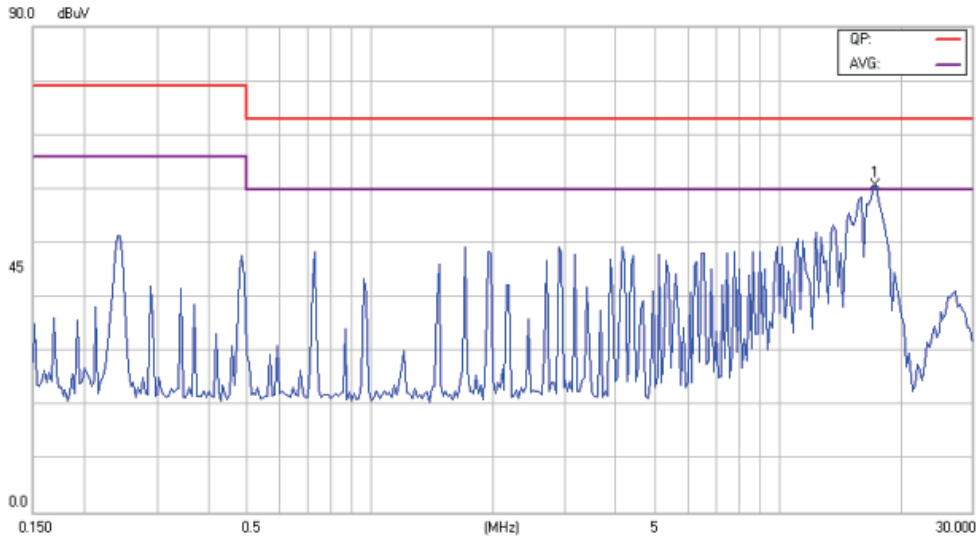
Verification test results

Conducted emission measurement

Data :#32

Date: 2017/3/15

Time: 上午 03:22:52



Radiated emission measurement (vertical)

Data: 43

Date: 2017-03-14 Time: 14:43:57

