

up to 97 % efficiency



# DESIGN KIT

## Low Power – Point of Load Solutions



**600 mA to 1.5 A, Low Input  
Voltage Single and  
Dual Channel Converter**

### **Evaluation Boards**

SP6669, XRP6658, XRP6668, XRP6657

### **Inductors**

WE-LHMI, WE-SPC, WE-TPC, WE-PD2,  
WE-LQ

**Order Code IC-744 721**

**Version 1.0**

# Low Power – Point of Load Solutions

Evaluation Board SP 6669	<b>744 032 900 2</b>	<b>744 025 002</b>	<b>744 025 003</b>	<b>744 032 900 4</b>	<b>744 025 004</b>	<b>744 025 006</b>	<b>744 032 910 0</b>	<b>744 025 150</b>	<b>744 025 220</b>
	WE-LQ	WE-TPC	WE-TPC	WE-LQ	WE-TPC	WE-TPC	WE-LQ	WE-TPC	WE-TPC
	L: 2.2 $\mu$ H	L: 2.2 $\mu$ H	L: 3.3 $\mu$ H	L: 4.7 $\mu$ H	L: 4.7 $\mu$ H	L: 6.8 $\mu$ H	L: 10 $\mu$ H	L: 15 $\mu$ H	L: 22 $\mu$ H
	R <sub>DC</sub> : 0.126 $\Omega$	R <sub>DC</sub> : 0.057 $\Omega$	R <sub>DC</sub> : 0.085 $\Omega$	R <sub>DC</sub> : 0.195 $\Omega$	R <sub>DC</sub> : 0.1 $\Omega$	R <sub>DC</sub> : 0.142 $\Omega$	R <sub>DC</sub> : 0.390 $\Omega$	R <sub>DC</sub> : 0.356 $\Omega$	R <sub>DC</sub> : 0.525 $\Omega$
Evaluation Board XRP 6658	<b>744 373 240 10</b>	<b>744 373 240 15</b>	<b>744 043 002 2</b>	<b>744 373 240 33</b>	<b>744 089 430 68</b>	<b>744 089 431 50</b>	Evaluation Board XRP 6668		
	WE-SPC	WE-LHMI	WE-TPC	WE-LHMI	WE-SPC	WE-SPC			
	L: 1.0 $\mu$ H	L: 1.5 $\mu$ H	L: 2.2 $\mu$ H	L: 3.3 $\mu$ H	L: 6.8 $\mu$ H	L: 15 $\mu$ H			
	R <sub>DC</sub> : 0.022 $\Omega$	R <sub>DC</sub> : 0.0348 $\Omega$	R <sub>DC</sub> : 0.023 $\Omega$	R <sub>DC</sub> : 0.069 $\Omega$	R <sub>DC</sub> : 0.051 $\Omega$	R <sub>DC</sub> : 0.136 $\Omega$			
	<b>744 373 240 12</b>	<b>744 043 001 8</b>	<b>744 373 240 22</b>	<b>744 373 240 47</b>	<b>744 089 431 00</b>	<b>744 043 180</b>			
	WE-LHMI	WE-TPC	WE-LHMI	WE-LHMI	WE-SPC	WE-TPC			
	L: 1.2 $\mu$ H	L: 1.8 $\mu$ H	L: 2.2 $\mu$ H	L: 4.7 $\mu$ H	L: 10 $\mu$ H	L: 18 $\mu$ H			
	R <sub>DC</sub> : 0.025 $\Omega$	R <sub>DC</sub> : 0.020 $\Omega$	R <sub>DC</sub> : 0.051 $\Omega$	R <sub>DC</sub> : 0.095 $\Omega$	R <sub>DC</sub> : 0.095 $\Omega$	R <sub>DC</sub> : 0.138 $\Omega$			
Evaluation Board XRP 6657	<b>744 373 240 10</b>	<b>744 373 240 15</b>	<b>744 773 018</b>	<b>744 042 001 8</b>	<b>744 773 022</b>	<b>744 373 240 33</b>	<b>744 042 100</b>	<b>744 042 150</b>	<b>744 042 330</b>
	WE-LHMI	WE-LHMI	WE-PD2	WE-TPC	WE-PD2	WE-LHMI	WE-TPC	WE-TPC	WE-TPC
	L: 1.0 $\mu$ H	L: 1.5 $\mu$ H	L: 1.8 $\mu$ H	L: 1.8 $\mu$ H	L: 2.2 $\mu$ H	L: 3.3 $\mu$ H	L: 10 $\mu$ H	L: 15 $\mu$ H	L: 33 $\mu$ H
	R <sub>DC</sub> : 0.022 $\Omega$	R <sub>DC</sub> : 0.0348 $\Omega$	R <sub>DC</sub> : 0.028 $\Omega$	R <sub>DC</sub> : 0.040 $\Omega$	R <sub>DC</sub> : 0.2470 $\Omega$	R <sub>DC</sub> : 0.069 $\Omega$	R <sub>DC</sub> : 0.120 $\Omega$	R <sub>DC</sub> : 0.175 $\Omega$	R <sub>DC</sub> : 0.382 $\Omega$

■ Best suitable inductor  
Evaluation board configuration

■ Lowest profile inductor

All inductors are suitable, please refer to tables available in the booklet.

EMC COMPONENTS | INDUCTORS | TRANSFORMERS | RF COMPONENTS | CIRCUIT PROTECTION | EMC SHIELDING MATERIAL | CONNECTORS | SWITCHES | ASSEMBLY TECHNIQUE | POWER ELEMENTS

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