



Design Kit Low Power – Point of Load Solutions



With this Low Power Point of Load (POL) Solution Design Kit, Exar and Würth Elektronik proudly brings you a wide selection of converter range from 600 mA up to 1,500 mA.

This kit includes single or dual channel options. It provides you the latest synchronous step down ICs with best suitable and lowest profile inductors for your application needs.

Characteristics:

- Synchronous buck regulator
- 600 mA to 1,500 mA, single and dual channel converter
- Low input voltage (2.5 V-5.5 V)
- Constant operating frequency up to 1.5 MHz
- Efficiency up to 97%
- Adjustable output voltage as low as 0.6 V
- Over temperature protection

Applications:

- Portable equipment
- Point of loads (POL)
- Set top box
- Portable media players
- Hard disk drives
- Battery operated equipment
- Audio-video equipment
- Networking & telecom equipment

Available through distribution



Exar Device	Max. Output Current	Input Voltage Range	Output Voltage Range	Operating Frequency	Max Efficiency	Package	Würth Elektronik Inductor	
							Value	Reference
SP6669	0.6 A	2.5 V - 5.5 V	0.6 V - V_{IN}	1.5 MHz	95 %	SOT23-5	4.7 μ H	744 025 004
XRP6658	1 A	2.5 V - 5.5 V	0.6 V - V_{IN}	1.5 MHz	97 %	SOT23-5	2.2 μ H	744 043 002 2
XRP6668	1A / 1A	2.5 V - 5.5 V	0.6 V - V_{IN}	1.5 MHz	97 % / 97 %	SOIC8	2.2 μ H / 2.2 μ H	744 043 002 2
XRP6657	1.5 A	2.5 V - 5.5 V	0.6 V - V_{IN}	1.5 MHz	95 %	DFN6	1.8 μ H	744 773 018

- 4 working evaluation boards
- 4 different ICs
- More than 150 inductors



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Evaluation Board	744 032 900 2	744 025 002	744 025 003	744 032 900 4	744 025 004	744 025 006	744 032 910 0	744 025 150	744 025 220
SP 0669	WE-IG L: 2.2 μ H R_{DC} : 0.128 Ω	WE-TPC L: 2.2 μ H R_{DC} : 0.087 Ω	WE-TPC L: 3.3 μ H R_{DC} : 0.088 Ω	WE-IG L: 8.7 μ H R_{DC} : 0.195 Ω	WE-TPC L: 6.7 μ H R_{DC} : 0.13 Ω	WE-TPC L: 6.8 μ H R_{DC} : 0.142 Ω	WE-IG L: 10 μ H R_{DC} : 0.362 Ω	WE-TPC L: 10 μ H R_{DC} : 0.362 Ω	WE-TPC L: 20 μ H R_{DC} : 0.302 Ω
XRP 6658	WE-TPC L: 1.0 μ H R_{DC} : 0.022 Ω	WE-UMR L: 1.0 μ H R_{DC} : 0.038 Ω	WE-TPC L: 2.2 μ H R_{DC} : 0.023 Ω	WE-UMR L: 3.3 μ H R_{DC} : 0.089 Ω	WE-TPC L: 6.8 μ H R_{DC} : 0.101 Ω	WE-TPC L: 6.8 μ H R_{DC} : 0.136 Ω	WE-TPC L: 10 μ H R_{DC} : 0.136 Ω	WE-TPC L: 10 μ H R_{DC} : 0.136 Ω	WE-TPC L: 20 μ H R_{DC} : 0.136 Ω
XRP 6657	WE-UMR L: 1.0 μ H R_{DC} : 0.022 Ω	WE-TPC L: 1.0 μ H R_{DC} : 0.020 Ω	WE-UMR L: 1.0 μ H R_{DC} : 0.031 Ω	WE-TPC L: 1.0 μ H R_{DC} : 0.020 Ω	WE-UMR L: 1.0 μ H R_{DC} : 0.031 Ω	WE-TPC L: 1.0 μ H R_{DC} : 0.020 Ω	WE-TPC L: 1.0 μ H R_{DC} : 0.020 Ω	WE-TPC L: 1.0 μ H R_{DC} : 0.020 Ω	WE-TPC L: 1.0 μ H R_{DC} : 0.020 Ω

Ask for your free load board with every kit's purchase. More information on www.we-online.com/exar