

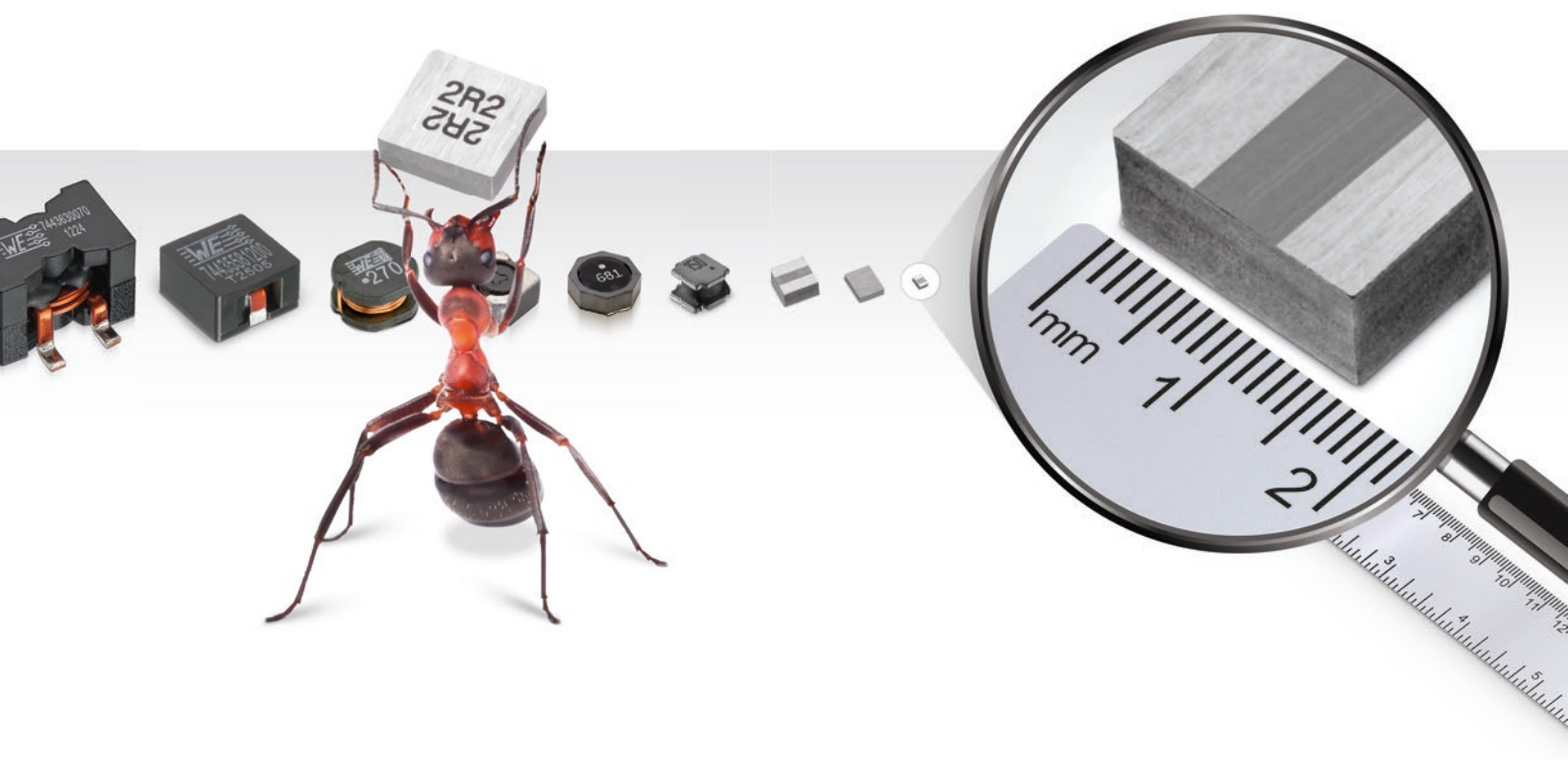


WE-MAPI 1610 SMD Power Inductor

SMALLEST
WORLD'S SMALLEST
WIRE WOUND METAL ALLOY
POWER INDUCTOR

Downsize your PCB Space

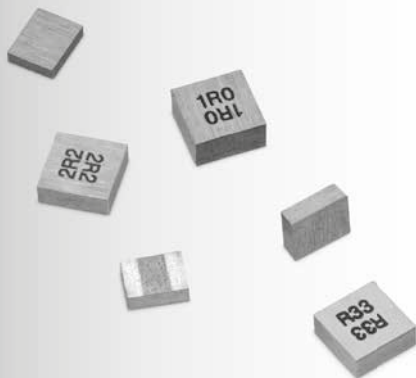
- +50 % supercharged current handling up to 4.9A
- Temperature independent saturation
- Tiny as 1.6 x 1.6 x 1.0 mm



WE-MAPI

SMD Metal Alloy Power Inductor

Size 1610



Characteristics

- Magnetic iron alloy allows high rated currents
- Compact design
- Magnetically shielded
- High current capability and handles high transient current spikes
- Low acoustic noise and low leakage flux noise
- Operating temperature: -40 °C to 125 °C

**4-times higher saturation current
Best efficiency
Minimized package**

Applications

- DC/DC-converter for high current power supplies
- DC/DC-converter for Field Programmable Gate Array (FPGA)
- POL-converters
- Portable power like PDA, digital camera
- Mainboards/graphic cards
- Battery powered devices
- Wireless communication devices
- Power supplies for smart-phones, tablet PCs and other mobile devices

QR-Code

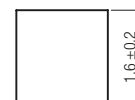
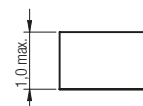
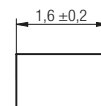
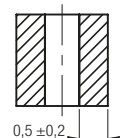


Electrical properties

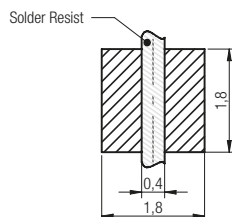
Order Code	L (µH)	Tolerance (%)	I _r (A)	I _{sat} (A)	R _{DC typ.} (mΩ)	R _{DC max.} (mΩ)	Qty.
744 383 130 033	0.33	±30%	1.9	4.9	65	84	3000
744 383 130 047	0.47		1.7	4.5	77	101	
744 383 130 056	0.56		1.65	4.0	90	113	
744 383 130 068	0.68		1.55	3.8	101	126	
744 383 130 082	0.82		1.45	3.6	115	144	
744 383 130 10	1.0		1.4	3.4	127	159	
744 383 130 12	1.2		1.3	3.2	140	174	
744 383 130 15	1.5		0.95	2.7	189	237	
744 383 130 22	2.2		0.85	2.5	337	388	

I_r referring to 40 K heating above ambient temperature
I_{sat} referring to inductance loss of 20% typical

Dimensions (in mm)



Soldering Pad (in mm)



no vias and traces in restricted area

Inductance vs. Current

