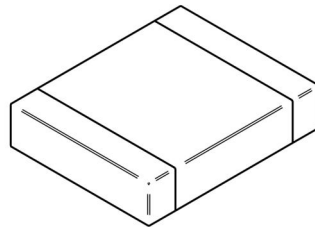
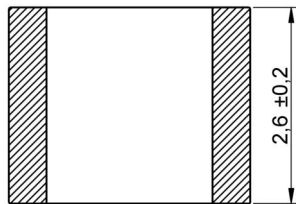
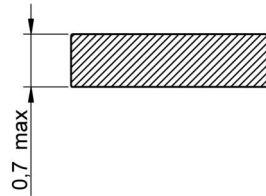
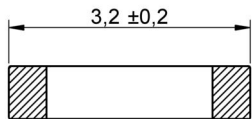
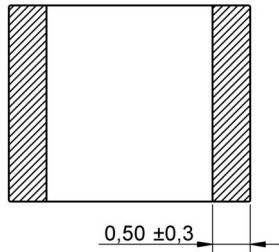
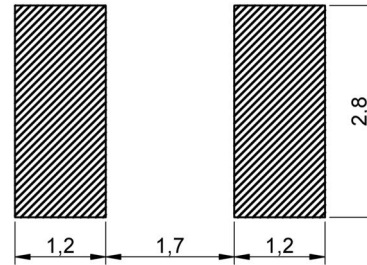


**A Dimensions: [mm]**



Scale - 10:1

**B Recommended land pattern: [mm]**



Scale - 10:1

**C Schematic:**



**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
<b>Inductance</b>	1 MHz/ 5 mA	L	0.5	µH	±20%
<b>Rated current</b>	ΔT = 20 K	I <sub>R</sub>	2000	mA	typ.
<b>Rated current</b>	ΔT = 40 K	I <sub>R</sub>	2900	mA	typ.
<b>Saturation current</b>	IΔL/LI = 30%	I <sub>sat</sub>	1100	mA	typ.
<b>DC Resistance</b>	@ 20°C	R <sub>DC</sub>	25	mΩ	±25%
<b>Self resonant frequency</b>		f <sub>res</sub>	90	MHz	min.
<b>Q-factor</b>	1 MHz/ 5 mA	Q	25		min.
<b>Type of application</b>			Low Profile		

**E General information:**

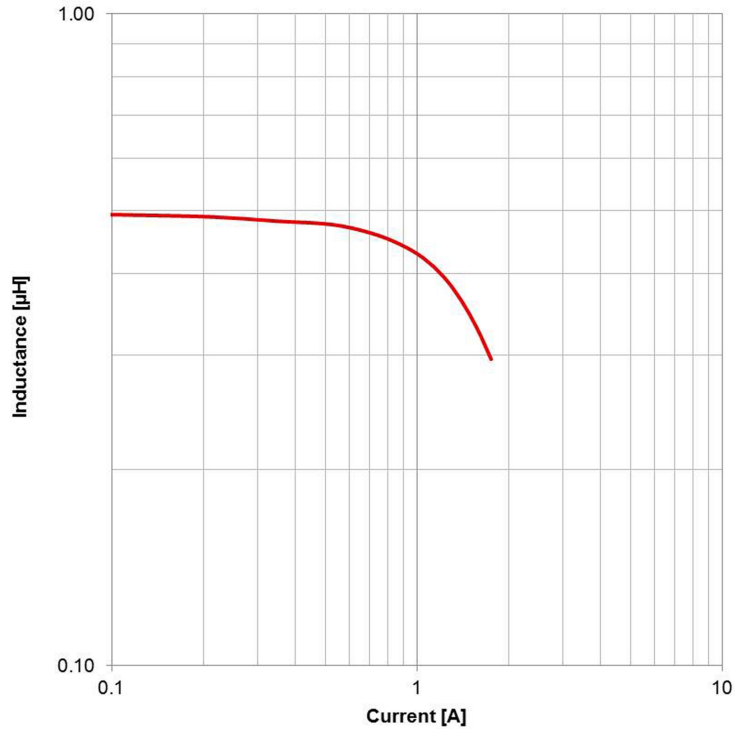
It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

- Ambient temperature: -40°C to +85°C/105°C (referring to I<sub>R</sub>)
- Operating temperature: -40°C to +125°C
- Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

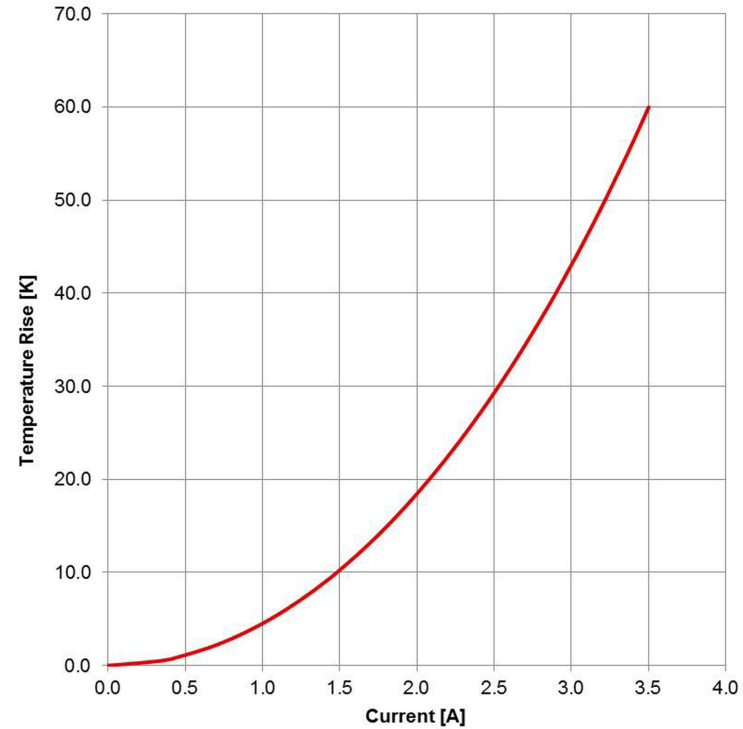
				Projection 	DESCRIPTION
					<b>WE-PMI Power Multilayer Inductor</b>
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	Order.- No.
1.0	2014-11-10	SSt	MaKa		<b>74479897150</b>
REV	DATE	BY	CHECKED		
					SIZE
					A4
					Size: 1210



**F1 Typical Inductance vs. Current Characteristics:**



**F2 Typical Temperature Rise vs. Current Characteristics:**

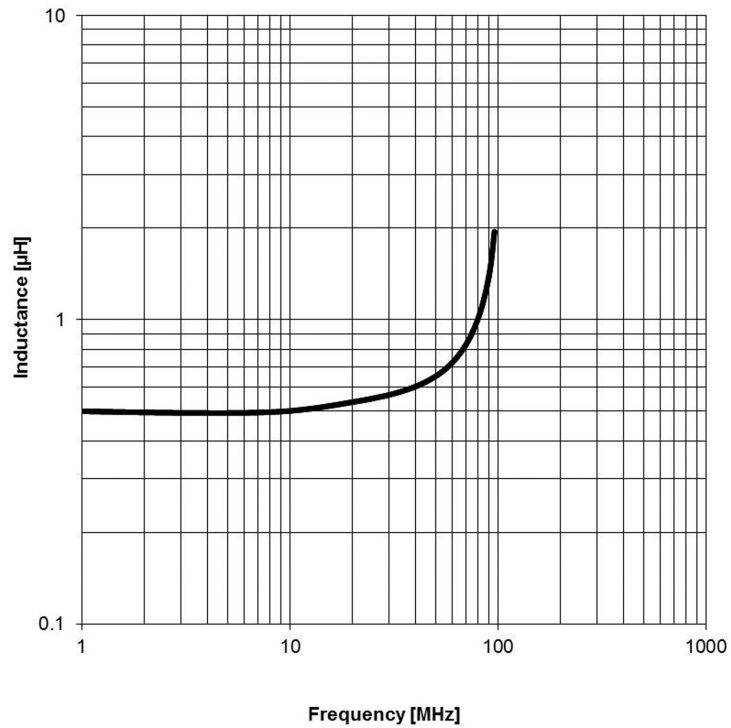


				Projection 	DESCRIPTION  <b>WE-PMI Power Multilayer Inductor</b>
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	
1.0	2014-11-10	SSt	MaKa		Order.- No.  <b>74479897150</b>
REV	DATE	BY	CHECKED		COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK
					SIZE A4
					Size: 1210

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.



### F3 Typical Inductance vs. Frequency Characteristics:



				Projection 	DESCRIPTION	
					<b>WE-PMI Power Multilayer Inductor</b>	
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	Order.- No.	SIZE
1.0	2014-11-10	SSt	MaKa		<b>74479897150</b>	
REV	DATE	BY	CHECKED		Size: 1210	A4

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