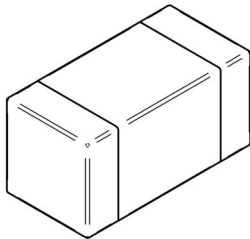
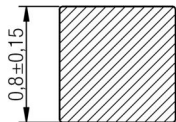
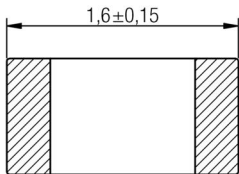
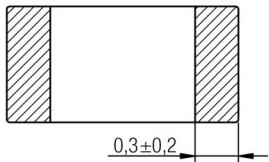
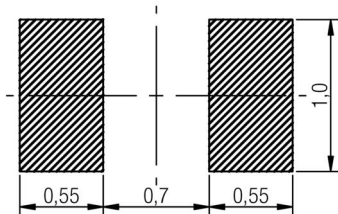


A Dimensions: [mm]



Scale - 20:1

B Recommended land pattern: [mm]



Scale - 20:1

C Schematic:



D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	1 MHz/ 5 mA	L	0.47	μH	±20%
Rated current	ΔT = 20 K	I _R	600	mA	typ.
Rated current	ΔT = 40 K	I _R	800	mA	typ.
Saturation current	IΔL/LI = 30%	I _{sat}	200	mA	typ.
DC Resistance	@ 20°C	R _{DC}	300	mΩ	±25%
Self resonant frequency		f _{res}	250	MHz	min.
Q-factor	1 MHz/ 5 mA	Q	10		min.
Type of application			Low RDC		

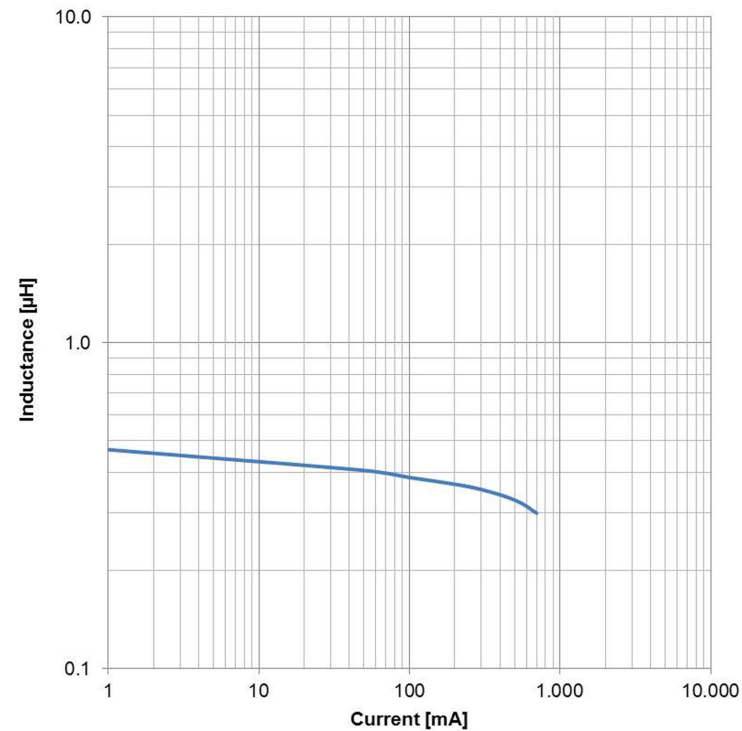
E General information:

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

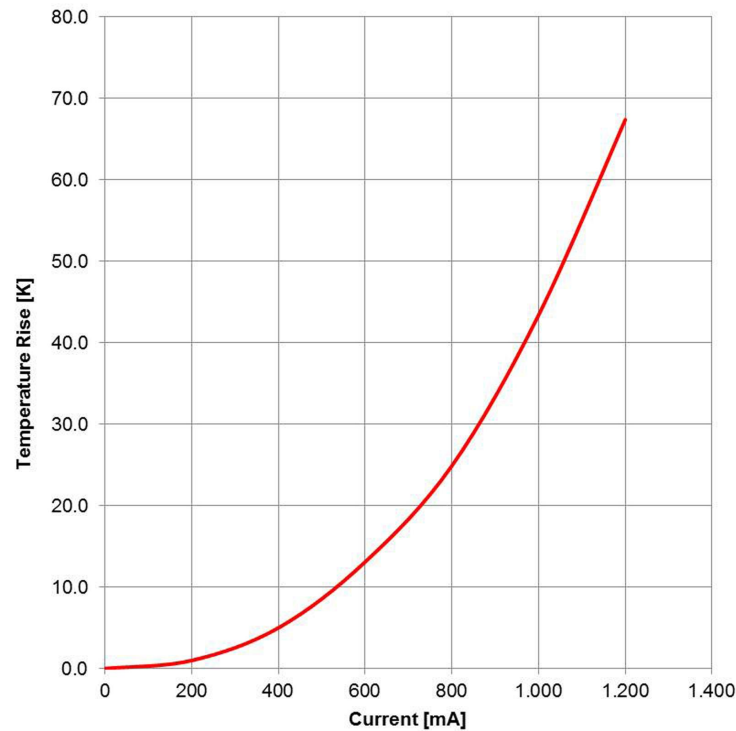
- Ambient temperature: -40°C to +85°C/105°C (referring to I_R)
- Operating temperature: -40°C to +125°C
- Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

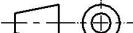


F1 Typical Inductance vs. Current Characteristics:



F2 Typical Temperature Rise vs. Current Characteristics:

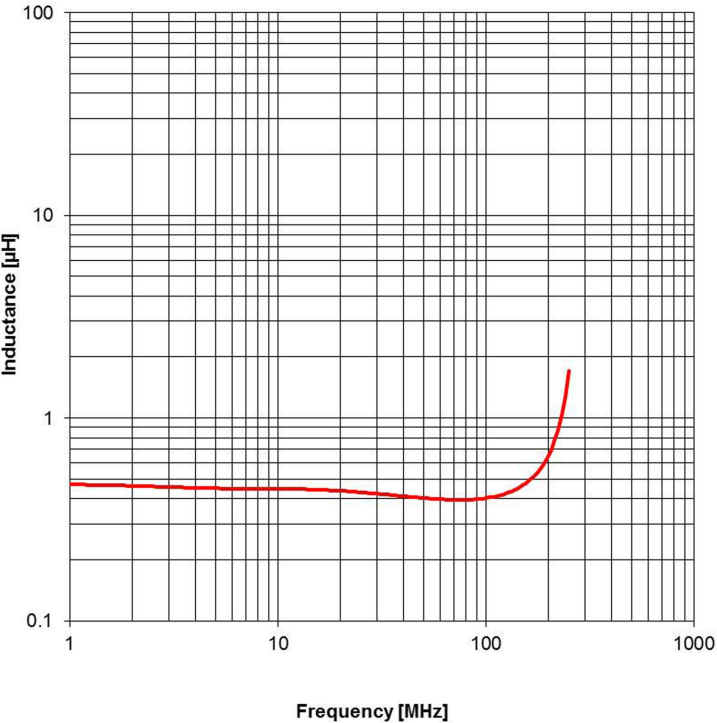


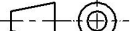
				Projection 		DESCRIPTION		
1.5	2014-03-10	SSt	SSt	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		WE-PMI Power Multilayer Inductor		
1.4	2013-04-09	SSt	SSt					
1.3	2013-02-04	SSt	DDi			Order.- No.	 COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK	SIZE
1.2	2012-12-05	SSt	SSt			74479763147		A4
1.1	2012-11-19	SSt	DDi			Size: 0603		
1.0	2012-05-07	DDi	-					
REV	DATE	BY	CHECKED					

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.



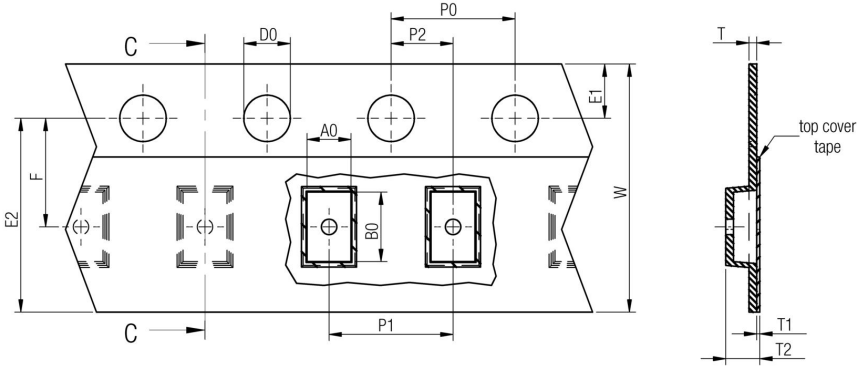
F3 Typical Inductance vs. Frequency Characteristics:



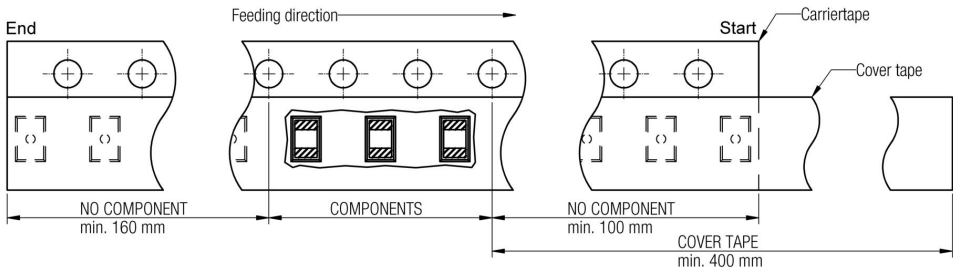
				Projection 		DESCRIPTION			
						WE-PMI Power Multilayer Inductor			
1.5	2014-03-10	SSt	SSt	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Order.- No.			SIZE
1.4	2013-04-09	SSt	SSt			74479763147			A4
1.3	2013-02-04	SSt	DDi						
1.2	2012-12-05	SSt	SSt						
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REV	DATE	BY	CHECKED			Size: 0603			

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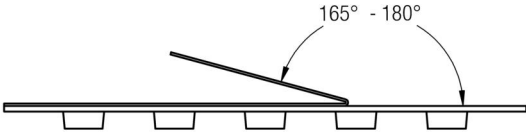
G Packaging Specification - Tape and Reel [mm]:



size		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit
	tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
	0603	1,00	1,80	8,00	4,00	0,25	0,10	1,80	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	4000
	0805	1,60	2,30	8,00	4,00	0,25	0,10	1,80	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	4000
	0806	1,90	2,30	8,00	4,00	0,25	0,10	1,80	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	3000
	1008	2,30	2,80	8,00	4,00	0,25	0,10	1,80	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	3000
	1210	2,30	2,80	8,00	4,00	0,25	0,10	2,10	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	3000

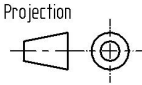


Packaging is referred to the international standard IEC 60286 -3:2007

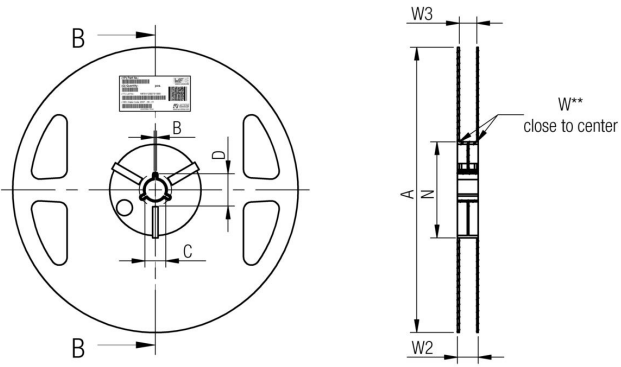


Pull-of force	
Tape width	8 mm
	0,1 N - 1,0 N

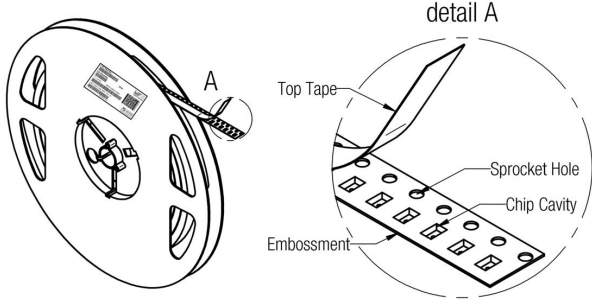
1.5	2014-03-10	SSt	SSt
1.4	2013-04-09	SSt	SSt
1.3	2013-02-04	SSt	DDi
1.2	2012-12-05	SSt	SSt
1.1	2012-11-19	SSt	DDi
1.0	2012-05-07	DDi	-
REV	DATE	BY	CHECKED



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Germany
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www.we-online.com
eiSos@we-online.com



	A	B	C	D	N	W1	W2	W3	W3
tolerance	± 2,0	min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width	8 mm	178,00	1,50	13,00	20,20	50,00	8,40	14,40	7,90 10,90



DESCRIPTION

WE-PMI Power Multilayer Inductor

Order.- No.

74479763147

Size: 0603



SIZE

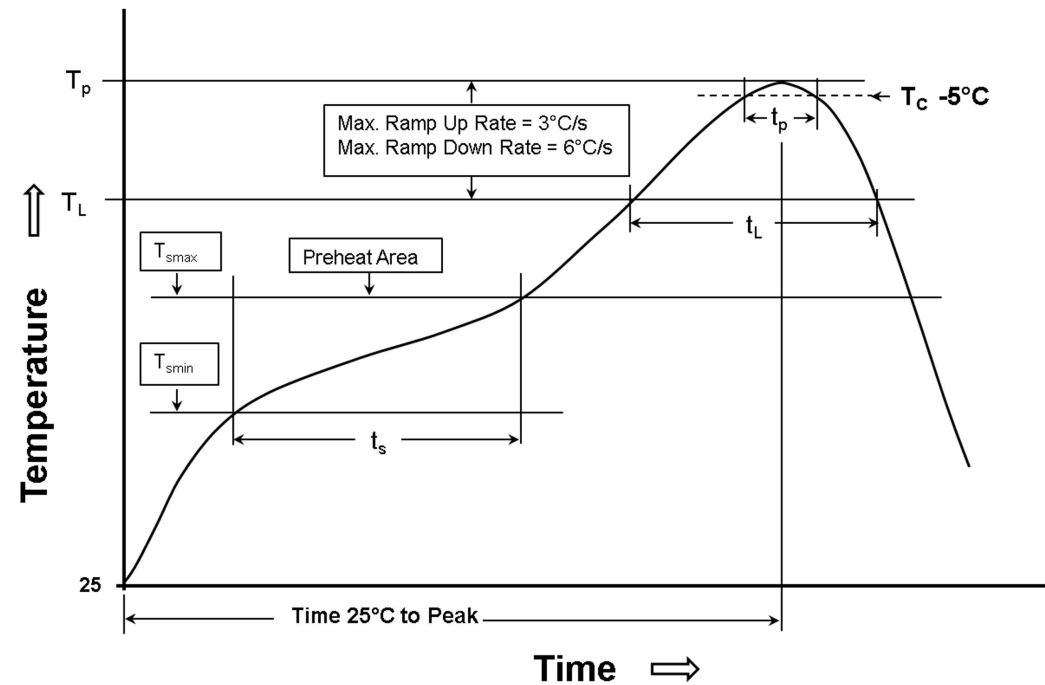
A4

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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat - Temperature Min (T_{smin}) - Temperature Max (T_{smax}) - Time (t_s) from (T_{smin} to T_{smax})	150°C 200°C 60-120 seconds
Ramp-up rate (T_L to T_P)	3°C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds
Peak package body temperature (T_P)	See Table H3
Time within 5°C of actual peak temperature (t_p)	20-30 seconds
Ramp-down rate (T_P to T_L)	6°C/ second max.
Time 25°C to peak temperature	8 minutes max.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

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				Projection 		DESCRIPTION
1.5	2014-03-10	SSt	SSt			WE-PMI Power Multilayer Inductor
1.4	2013-04-09	SSt	SSt			
1.3	2013-02-04	SSt	DDi			
1.2	2012-12-05	SSt	SSt			
1.1	2012-11-19	SSt	DDi			
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Order.- No.
74479763147
Size: 0603

**COMPLIANT
RoHS&REACH
WÜRTH ELEKTRONIK**

SIZE
A4

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-PMI of Würth Elektronik eiSos GmbH & Co. KG:

General:

All recommendations according to the general technical specifications of the data sheet have to be complied with.

The usage and operation of the product within ambient conditions, which probably alloy or harm the wire isolation, has to be avoided.

If the product is potted in customer applications, the potting material might shrink during and after hardening. The product is exposed to the pressure of the potting material with the effect that the core, wire and termination is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endangered to be affected. After the potting material is cured, the core, wire and termination of the product have to be checked if any reduced electrical or mechanical functions or destructions have occurred.

The responsibility for the applicability of customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products do also apply to customer specific products.

Cleaning agents that are used to clean the customer application might damage or change the characteristics of the component, body, pins or termination.

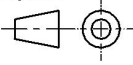
Direct mechanical impact to the product shall be prevented as the iron powder material of the core could flake or in the worst case it could break.

Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The soldering profile has to be complied with according to the technical reflow soldering specification, otherwise this will void the warranty.
- All products shall be used before the end of the period of 12 months based on the product date code, if not a 100% solderability can't be guaranteed.
- Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.



				Projection 		DESCRIPTION WE-PMI Power Multilayer Inductor		
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1.4	2013-04-09	SSt	SSt	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. 74479763147			SIZE
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1.0	2012-05-07	DDi	-					
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