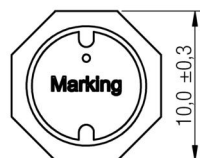
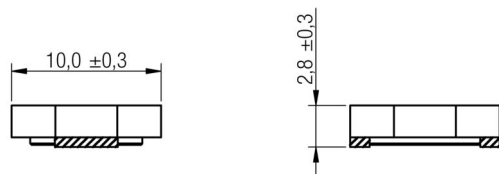
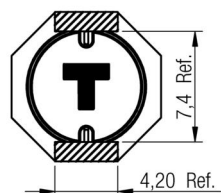
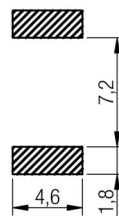


A Dimensions: [mm]

Scale - 2:1

Reference on drawing	Description
•	Start of winding
Marking	220 (Inductance Code)

B Recommended land pattern: [mm]

Scale - 2:1

C Schematic:**D Electrical Properties:**

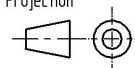
Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 1 V	L	22	μH	±30%
Rated current	ΔT = 30 K	I _R	1.8	A	max.
Saturation current	ΔL/L < 35%	I _{sat}	1.9	A	typ.
DC Resistance	@ 20°C	R _{DC}	110	mΩ	typ.
DC Resistance	@ 20°C	R _{DC}	135	mΩ	max.
Self resonant frequency		f _{res}	16	MHz	typ.

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 +95°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

Projection



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eiSos@we-online.com

DESCRIPTION

WE-TPC SMD Shielded Tiny Power Inductor

Order.- No.

744065220

Size: 1028

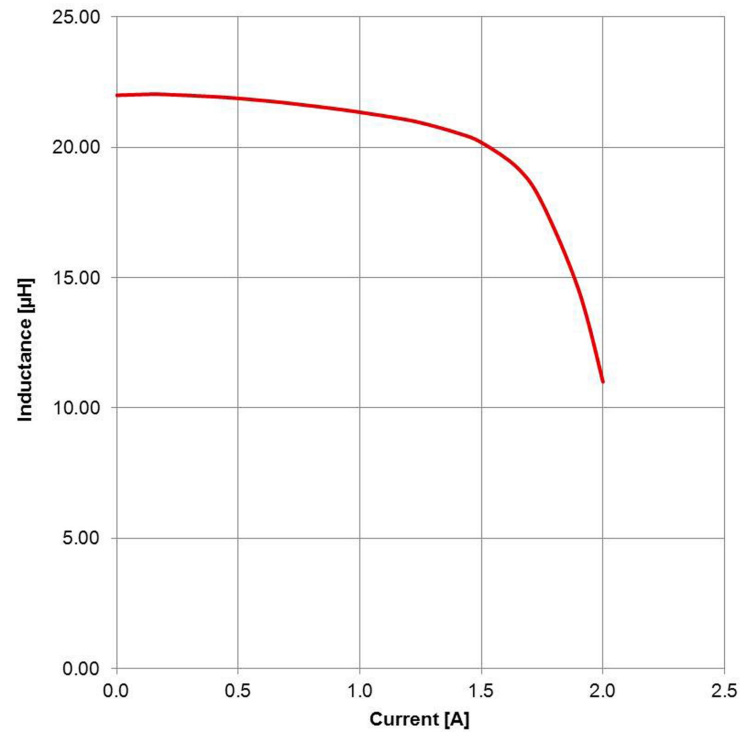


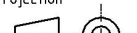
SIZE

A4



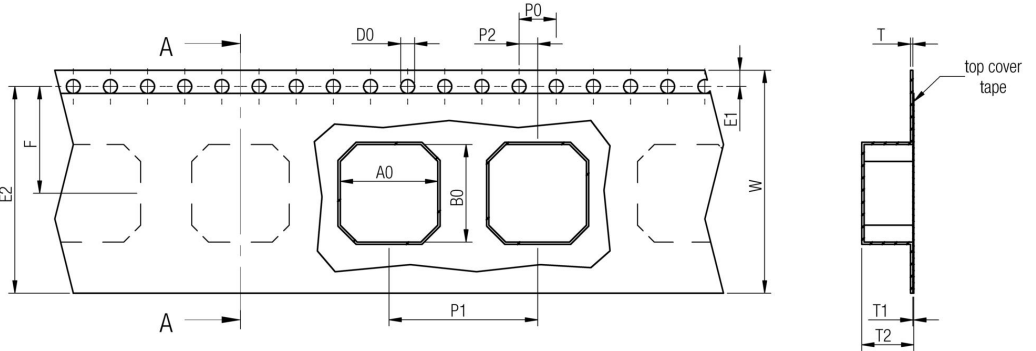
F1 Typical Inductance vs. Current Characteristics:



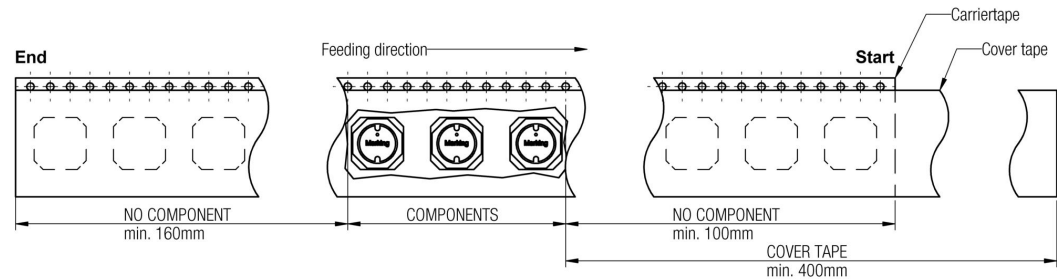
				Projection 	DESCRIPTION			
					WE-TPC SMD Shielded Tiny Power Inductor			
3.5	2015-01-29	SSt	JRS	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	Order.- No.			SIZE
3.4	2014-09-11	SSt	JRS		744065220			A4
3.3	2014-04-01	SSt	SSt		Size: 1028			
3.2	2013-05-27	SSt	COt					
3.1	2013-04-09	SSt	COt					
3.0	2008-11-24	ME	-					
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.

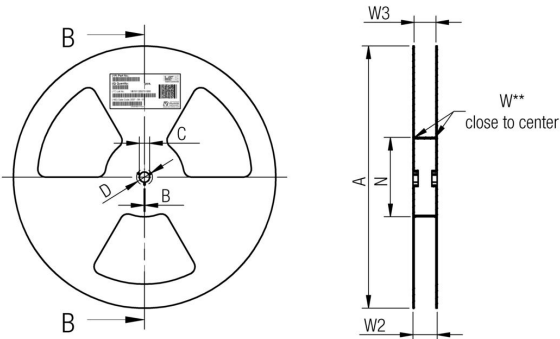
G Packaging Specification - Tape and Reel [mm]:



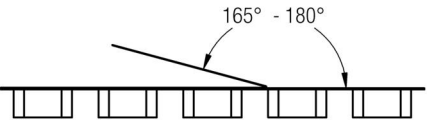
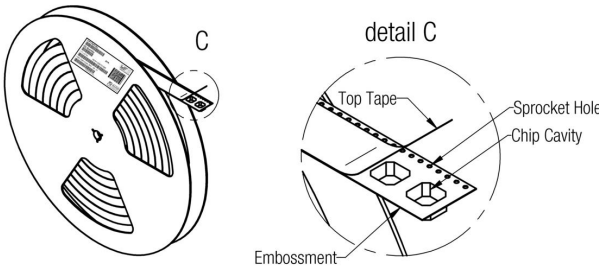
	A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit
tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,3 -0,1	± 0,1	min.	± 0,05	± 0,1	± 0,05		
size 1028	10,50	10,50	24,00	16,00	0,25	0,10	3,00	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	1000
size 1038	10,50	10,50	24,00	16,00	0,25	0,10	4,00	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	800



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

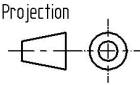


	A	B	C	D	N	W1	W2	W3	W3
tolerance	± 2,0	min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width 24 mm	330,00	1,50	13,00	20,20	100,00	24,40	30,40	23,90	27,40



	Pull-of force
Tape width 24 mm	0,1 N - 1,3 N

3.5	2015-01-29	SSt	JRS
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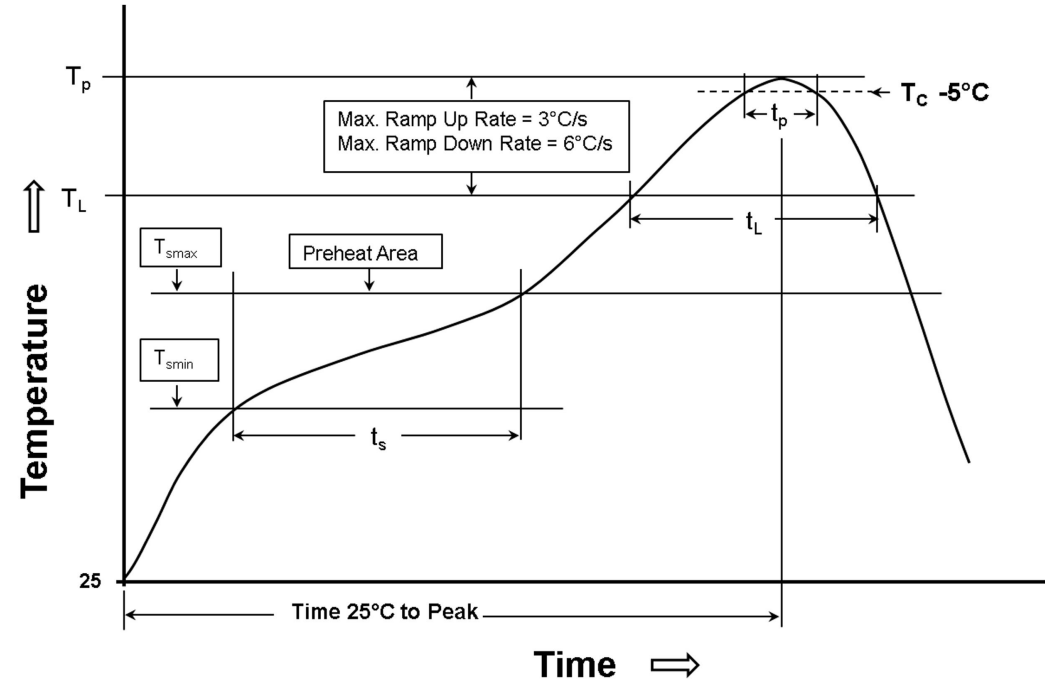
A4

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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, except T_p 260°C at t_p 10 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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