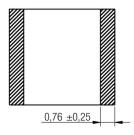
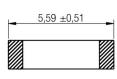
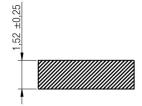
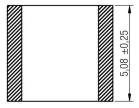
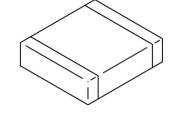
A Dimensions: [mm]







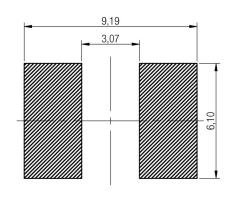




Scale - 5:1

C Schematic:

B Recommended land pattern: [mm]



Scale - 5:1



D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Impedance @ 100 MHz	100 MHz	Z	170	Ω	±25%
Maximum impedance	700 MHz	Z	280	Ω	typ.
Rated current	$\Delta T = 40K$	I _R	4000	mA	max.
DC Resistance		R _{DC}	0.015	Ω	max.
Type of application			High Current		

E General information:

Do not use this part beyond the Rated Current, as this will create excessive heat and can harm the component

- •Storage Temperature (on Tape & Reel): -20°C to 60°C
- •Operating Temperature: -55°C to 125°C
- •Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

				Projection ,				
1.5	2013-04-17	SSt	SSt					
1.4	2012-11-28	SSt	SSt	Würth Elektronik eiSos GmbH & Co				
1.3	2012-10-23	SSt	SMu	EMC & Inductive Solutions Max-Eyth-Str. 1				
1.2	2012-09-27	SSt	SMu	74638 Waldenburg				
1.1	2012-06-27	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0				
1.0	2011-10-01	SSt	SMu	www.we-online.com eiSos@we-online.com				
				0.0000@W0 01111110.00111				

DESCRIPTION

WE-MPSB EMI Multilayer Power Suppression Bead

Order.- No.

74279224171

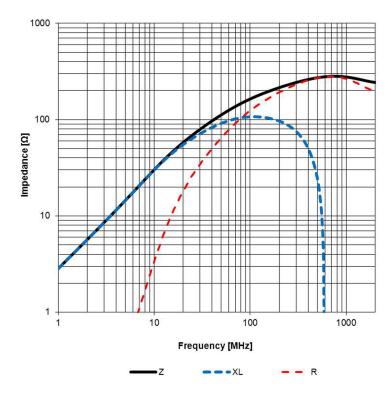


SIZE A4

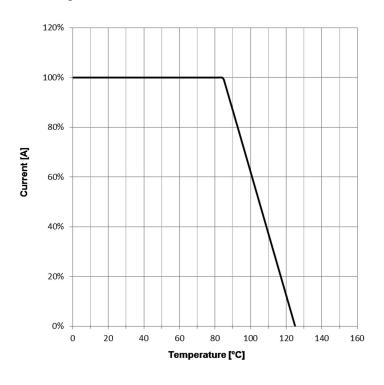
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment only. This product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically 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, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, trai 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.



F Typical Impedance Characteristics:



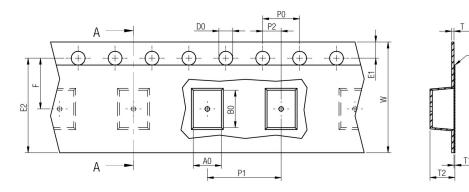
F Derating Curve:



valid for ambient temperature: -55°C to +85°C

				Projection		DESCRIPTION					
1.5	2013-04-17	SSt	SSt			WE-MPSB EMI N	Aultilaver Power				
1.4	2012-11-28	SSt	SSt	Würth Flektronik eiSos GmbH & Co. KG		Suppression Bead					
1.3	2012-10-23	SSt	SMu	EMC & Inductive Solutions Max-Evth-Str. 1		Suppression Deau					
1.2	2012-09-27	SSt	SMu	74638 Waldenburg		Order No.	COMPLIANT	SIZE			
1.1	2012-06-27	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		-40-00044-4	ROHS&REACH	OIZL			
1.0	2011-10-01	SSt	SMu	www.we-online.com eiSos@we-online.com		74279224171	TOTAL ELEKTRONIK	A4			
REV	DATE	BY	CHECKED	CIOCOSSIVE OTHING.COTT		Size: 2220					

G Packaging Specification: [mm]

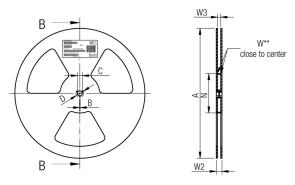


		Α0	В0	w	P1	т	T1	Т2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit										
	tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05												
	1610	3,30	4,39	12,00	8,00	0,30	0,10	2,68	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	2500										
_ n	1812	3,51	4,78	12,00	8,00	0,33	0,10	2,73	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	2500										
size	2220	5,40	5,95	12,00	8,00	0,33	0,10	2,28	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	2000										
"	2220 *	5,40	6,00	12,00	8,00	0,35	0,10	3,61	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	2000										
	3312	3,33	8,92	16,00	8,00	0,36	0,10	2,77	1,50	1,75	14,25	7,50	4,00	2,00	Polystyrene	2500										
	* this information is v	alid only	for the a	rticles 74	12792242	271 & 742	7922440	1								* this information is valid only for the articles 74279224271 & 74279224401										

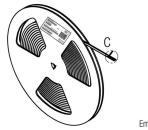
Feeding direction -Carriertape End Start -Cover tape \oplus NO COMPONENT COMPONENTS NO COMPONENT min. 160 mm COVER TAPE min. 400 mm

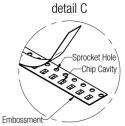
Packaging is referred to the international standard IEC 60286 -3:2007





		Α	В	С	D	N	W1	W2	W3	W3
tolerar	ice	± 2,0	min.	± 0,8	min.	± 2,0	+ 1,5	max.	min.	max.
Tape width	12 mm	330,00	1,50	13,00	20,20	100,00	12,40	18,40	11,90	15,40
Tape width	16 mm	330,00	1,50	13,00	20,20	100,00	16,40	22,40	15,90	19,40





165° - 180°

	Pull-of force
12 mm	0,1 N - 1,3 N
16 mm	0,1 N - 1,3 N
	12 mm

					Projection
					1-1-6
	1.5	2013-04-17	SSt	SSt	
	1.4	2012-11-28	SSt	SSt	Würth Elektronik eiSos
	1.3	2012-10-23	SSt	SMu	EMC & Inductive Solution Max-Evth-Str. 1
	1.2	2012-09-27	SSt	SMu	74638 Waldenburg
е	1.1	2012-06-27	SSt	SSt	Germany Tel. +49 (0) 79 42 945
1	1.0	2011-10-01	SSt	SMu	www.we-online.com eiSos@we-online.com
·	REV	DATE	BY	CHECKED	CIOCOSSWC OIIIIIC.COIII

top cover tape

Projection

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

DESCRIPTION

WE-MPSB EMI Multilayer Power Suppression Bead

Order.- No.

Size: 2220

74279224171



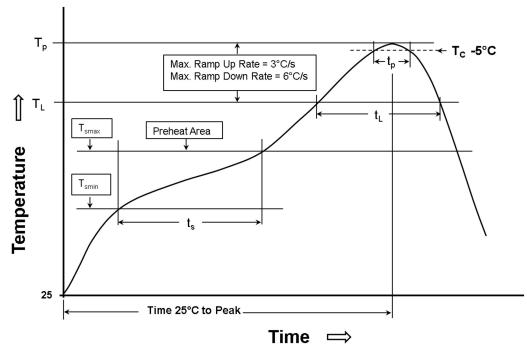
SIZE A4

This electronic component has been designed and developed for use in equipment only. This product is not authorized for use in equipment only. This 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, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, trai 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.

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 (Tp)	See Table H3			
Time within 5°C of actual peak temperature (tp)	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

				Projection ————————————————————————————————————		DESCRIPTION				
1.5	2013-04-17	SSt	SSt))-]		WE-MPSB EMI N	lultilayer Power			
1.4	2012-11-28	SSt	SSt	Würth Elektronik eiSos Gmbl	H & Co. KG	Suppression Bea	•			
1.3	2012-10-23	SSt	SMu	EMC & Inductive Solutions Max-Eyth-Str. 1		ouppi cooloii beau				
1.2	2012-09-27	SSt	SMu	74638 Waldenburg		Order No.	COMPLIANT	SIZE		
1.1	2012-06-27	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		74070004474	ROHS&REACH	0.22		
1.0	2011-10-01	SSt	SMu	www.we-online.com eiSos@we-online.com		74279224171		A4		
REV	DATE	BY	CHECKED	Cloudswic drilling.com		Size: 2220				

SIZE

Α4

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-MPSB 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 disposal and operation of the product within ambient conditions which probably alloy or harm the component surface has to be avoided.

If the product is potted in customer applications, the potting material might shrink during and after hardening. Accordingly to this the product is exposed to the pressure of the potting material with the effect that the ferrite body and termination is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endanger to be affected. After the potting material is cured, the ferrite body 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 for customer specific products.

Cleaning agents that are used to clean the application might damage or change the characteristics of the component, body, pins or terminati-

Direct mechanical impact to the product shall be prevented as the ferrite material of the ferrite body could flake or in the worst case it could

Product specific:

Follow all instructions mentioned in the datasheet, especially:

- •The solder profile has to be complied with according to the technical reflow soldering specification, otherwise no warranty will be sustained.
- · Wave soldering is only allowed after evaluation and approval.
- •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 warranted.
- Violation of the technical product specifications such as exceeding the nominal rated current will result in the loss of warranty.



				Projection ,		DESCRIPTION				
1.5	2013-04-17	SSt	SSt			WE-MPSB EMI M	lultilayer Power			
1.4	2012-11-28	SSt	SSt	Würth Elektronik eiSos GmbH & Co. KG		Suppression Bead				
1.3	2012-10-23	SSt	SMu	EMC & Inductive Solutions Max-Eyth-Str. 1		Suppression beau				
1.2	2012-09-27	SSt	SMu	74638 Waldenburg		Order No.	COMPLIANT			
1.1	2012-06-27	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		-10-000 11-1	ROHS&REACH			
1.0	2011-10-01	SSt	SMu			74279224171	Town I I I I I I I I I I I I I I I I I I I			
REV	DATE	BY	CHECKED	GIOCOSSWC GIIIIIG.COIII		Size: 2220				

J Important Notes:

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

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications.

In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component.

Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.



6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered.

The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG.

Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

				Projection		DESCRIPTION		
				-				
1.5	2013-04-17	SSt	SSt			WE-MPSB EMI N	Multilaver Power	
1.4	2012-11-28	SSt	SSt	Würth Elektronik eiSos GmbH & Co. KG		Suppression Bead		
1.3	2012-10-23	SSt	SMu	EMC & Inductive Solutions Max-Eyth-Str. 1		Suppression Deau		
1.2	2012-09-27	SSt	SMu	74638 Waldenburg		Order No.	COMPLIANT	SIZF
1.1	2012-06-27	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		RoHS&REACh	SIZE	
1.0	2011-10-01	SSt	SMu	www.we-online.com eiSos@we-online.com		74279224171 VORTH ELEKTRONIK		A4
REV	DATE	BY	CHECKED	- ธเอบจ๛พธ-บาแแซ.เบเน		Size: 2220		