

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Wurth Electronics Inc 74479773154

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



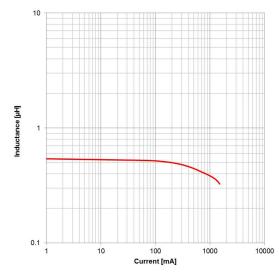
A Dimensions: [mm]		B Recor	nmended	land p	attern:	mm]			- L wü			-
							D Electrical P	roperties:				
					1,45		Properties	Test conditions		Value	Unit	Tol.
0,5 ±0,3							Inductance	1 MHz/ 5 mA	L	0.54	μH	±20%
			_0,	7_0,8_	0,7		Rated current	ΔT = 20 K	IR	900	mA	typ.
							Rated current	∆T = 40 K	IR	1300	mA	typ.
.02	±0,1						Saturation curre	ent ∆L/L = 30%	Isat	1000	mA	typ.
2,0 -0,1	0,5 ±						DC Resistance	e @ 20°C	RDC	120	mΩ	±25%
						Scale - 10:1	Self resonant frequ	lency	fres	120	MHz	min.
		C Schei	natio				Q-factor	1 MHz/ 5 mA	Q	10		min.
	t	U SUIICI	nauc.									
							Type of applicat	ion		Low Profile		
1.25 ±0.2				γ	\sim		under worst case	ormation: 1 that the temperatur operating conditions. ature: -40°C to +85°	°C/105°C			25°C
	Code 10.1						Operating temperating tem	erature: -40°C to +12 ature (on tape & reel): of Electrical Propertie	-20°C to	+40°C; 75%	% RH max	Ι.
	Scale - 10:1						Operating temper Storage tempera Test conditions if not specified of	erature: -40°C to +12 ature (on tape & reel): of Electrical Propertie differently	-20°C to	+40°C; 75%	% RH max	ζ
	Scale - 10:1					Projection	Operating temper Storage tempera Test conditions if not specified of	erature: -40°C to +12 ature (on tape & reel): of Electrical Propertie	-20°C to	+40°C; 75%	% RH max	
	Scale - 10:1					Projection	Operating temper Storage tempera Test conditions of if not specified of DESC	erature: -40°C to +12 ture (on tape & reel): of Electrical Propertie differently RIPTION	-20°C to s: 20°C, 3	+40°C; 759 33% RH		
	Scale - 10:1					Projection	Operating temper Storage tempera Test conditions of if not specified of DESC	erature: -40°C to +12 ature (on tape & reel): of Electrical Propertie differently	-20°C to s: 20°C, 3	+40°C; 759 33% RH		
	Scale - 10:1						Operating temperating temperating temperating temperating temperations of the second sec	erature: -40°C to +12 ture (on tape & reel): of Electrical Propertie differently RIPTION	-20°C to s: 20°C, 3	+40°C; 759 33% RH		
	Scale - 10:1					Würth Elektronik eiSos Gmb EMC & Inductive Solutions Max-Eyth-Str. 1	Operating temper Storage tempera Test conditions if not specified (DESC MI H & CO. KG	rature: -40°C to +12 ture (on tape & reel): of Electrical Propertie differently RIPTION E-PMI Power	-20°C to s: 20°C, 3	+40°C; 759 33% RH	uctor	
	Scale - 10:1		2014-06-11	SSt T	SSt	Würth Elektronik elSos Gmb EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Operating temperating temperating temperating temperating temperations of the second sec	rature: -40°C to +12 ture (on tape & reel): of Electrical Propertie differently RIPTION E-PMI Power	-20°C to s: 20°C, 3	+40°С; 75% 33% RH ayer Indu	ICTOR	
	Scale - 10:1	1.1	2014-03-10	SSt	SSt	Wurth Elektronik elSos Gmb EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	Operating tempera Storage tempera Test conditions if not specified of DESC WI H& Co. KG Order	rature: -40°C to +12 ture (on tape & reel): of Electrical Propertie differently E-PMI Power	-20°C to s: 20°C, 3	9 +40°С; 759 33% RH ayer Indu	uctor	SIZE
	Scale - 10:1	1.1				Würth Elektronik elSos Gmb EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Operating tempera Storage tempera Test conditions (if not specified (rature: -40°C to +12 ture (on tape & reel): of Electrical Propertie differently RIPTION E-PMI Power	-20°C to s: 20°C, 3	9 +40°С; 759 33% RH ayer Indu	ICTOR	

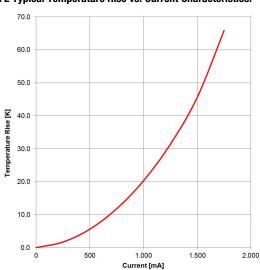
The electronic component has been designed and developed for usage in general electronic explorment toy). This product is not authorized for use in ease staty standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically quorent gas to use. Nervoew YUMIH before which electronic designed not interact as a military, arrespressa, availand, muchairs the information of use in ease severe personal injury or death, unless the parties have executed an agreement specifically quorent gas to use. Nervoew YUMIH before designed not interact as a military, arrespressa, availand, muchairs charged and in a more staty is anothed, share personal injury or death, unless the parties have executed an agreement specifically quorent gas to use. The design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is seed in electrical circuits that require high staty and reliability functors or performance.





F1 Typical Inductance vs. Current Characteristics:





				Projection		DESCRIPTION WE-PMI Power	Multilayer Inductor		
				Würth Elektronik elSos Gmbl EMC & Inductive Solutions	H & Co. KG		,, ,		
1.2	2014-06-11	SSt	SSt	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	RoHS&REACh	SIZE	
1.1	2014-03-10	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0				UILL	
1.0	2013-09-10	SSt	DDi	www.we-online.com eiSos@we-online.com					
REV	DATE	BY	CHECKED	elouseave-unime.com		Size: 0805			

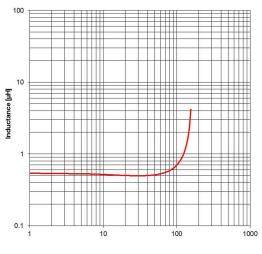
This descriptionic component has been designed and developed for usage in general electroic equipment only. This product is not authorized for use in practically againment specifically agained and releasing transmission again agreement again agreement specifically governing such usage. Moreover Winth Elektronik eSiss GmbH & Co. KG products are netline designed nor intended for use in areas such as military, astropation intended for use in practical state agreement specifically agained and developed and developed and developed for usage in agreement specifically governing such usage before the designed as a release of the product is reasonably expected to cause serve personal liny or death unless the parties have exoluted in transmit, transportation (automotive control, than control, this portion), transportation signal, disaster prevention, medical, public information network etc... With Elektronik eSiss GmbH & Co. KG must be informed about the intent of such usage before the design-in status in addition, addition televistical and relative status and the addition televistical as a relative of development expected to cause serve personal liny of wath unless the parties have expected to such as prevention, medical, public information network etc... With Elektronik eSis GmbH & Co. KG must be informed about the intent of such usage before the design-in status of addition televistical as a relative edition and the information expected to cause serve personal liny of wath unless the parties have expected to such and the definite and the information expected to cause serve personal liny of eath to be informed and the electrical circumstering wath and addition electrical circumstering wath andition electrical circumstering

F2 Typical Temperature Rise vs. Current Characteristics:





F3 Typical Inductance vs. Frequency Characteristics:



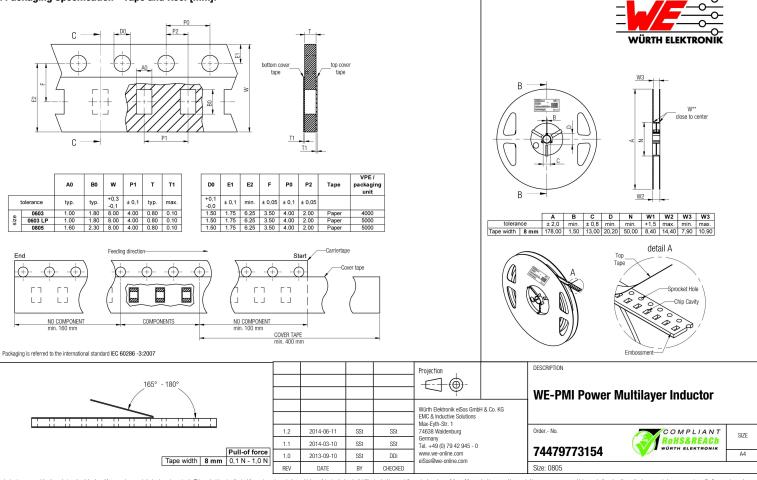
Frequency [MHz]

				Projection		DESCRIPTION WE-PMI Power I	Multilayer Inductor		
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions					
1.2	2014-06-11	SSt	SSt	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE	
1.1	2014-03-10	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACH	OILL	
1.0	2013-09-10	SSt	DDi	www.we-online.com eiSos@we-online.com		74479773154			
REV	DATE	BY	CHECKED	CIGUS/84WC-UTIIITC.CUTI		Size: 0805			

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 With TEHedronik eSiss GinH & D. XG products are entited regaring according, anotypace, akidian, nucleor targention isgual, disaster prevention, medical, public information network etc... With Elektronik eSiss GinH & A. D. XG products so that the information extension agreement specifically governing such usage before the disagin - staget, in fadios, safeline that reliably extension network etc... With Elektronik eSiss GinH & A. D. XG product is not authoric extension agreement specifically governing such usage before the disagin - staget, in fadios, safeline that the reliably exatiation on the side of in electric according to the reliably exatiation on the reliable staget on the staget on the staget on reliable reliable on the reliable staget on the staget on reliable reliable on reliable staget on the staget on reliable reliable on reliable staget on the staget on reliable reliable on reliable staget on the staget on reliable reliable on reliable staget on the staget on reliable reliable on reliable staget on reliable reliable on reliable staget on the staget on reliable reliable staget on the staget on reliable reliable on reliable r







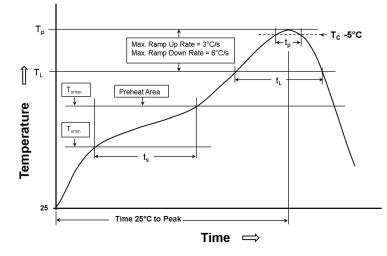
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H Soldering Specifications:



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 (TL) Time (tL) maintained above TL	217°C 60-150 seconds	
Peak package body temperature (Tp)	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/ IEDEC I_STD_020D		-

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >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			Aultilaver Inductor			
				Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions		_ WE-PMI Power Multilayer Inductor				
1.2	2014-06-11	SSt	SSt	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE		
1.1	2014-03-10	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		74470770454	ROHS&REACH	OLL		
1.0	2013-09-10	SSt	DDi	www.we-online.com eiSos@we-online.com		74479773154		A4		
REV	DATE	BY	CHECKED	elous@we-unine.com		Size: 0805				

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 William Existencia 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 William Existencia equipment on the device is safety, assesses, existen, mote existencia economic, statentime, transportation (automotive economic), transportation signal, disaster prevention, medical, public information network etc., Winth Elektronik eScs GmbH & Co KG must be informed on every electrical circuits bits entities in the requerite high safety or existence on performance.

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 core material 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
ensured.

•Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.

The general and product specific cautions comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable; however, no responsibility is assumed for inaccuracies or incompleteness.

				Projection		DESCRIPTION WE-PMI Power N	Aultilayer Inductor			
				Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions						
1.2	2014-06-11	SSt	SSt	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE		
1.1	2014-03-10	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		74470770454	ROHS&REACH	OILL		
1.0	2013-09-10	SSt	DDi	www.we-online.com eiSos@we-online.com		74479773154		A4		
REV	DATE	BY	CHECKED	elousewe-unime.com		Size: 0805				

This electronic component has been designed and developed for usage in general electronic explorment values. 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 Will Electronic eds GmH & Co. KG products are notified edsigned and the internet of user in equipment where a higher safety standard and reliability standard is specially 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 Will Electronic eds GmH & Co. KG products are notified eds governal injury or death. Will be internet of such usage before the design in tagin, in tadions standies and the reliability standard or executed an agreement specifically and the internet of such usage before the design in tagin, in tadions standies in the internet of such usage to the edited or causes. Will be adding statistical the internet of such usage to the edited or causes in the internet of such usage before the design in tagin, in the internet of such usage to the internet of such usag



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 responsibi-lity 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 thrman 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 stan-dard 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 WE-PMI Power N	Aultilayer Inductor			
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions						
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1.1	2014-03-10	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		74470770454	ROHS&REACH	OILL		
1.0	2013-09-10	SSt	DDi	www.we-online.com eiSos@we-online.com		74479773154		A4		
REV	DATE	BY	CHECKED	CIDOS/SINC OTHER.COTT		Size: 0805				

Her 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, transportation (automotive control, train control, stan portation signal, disaster prevention, medical, public information network etc... Wurth Elektronik eSos GmbH & Co KG must be informed about the internit of such usage before in pills safety and reliability functions or performance. schronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a high er Wüht fledkronik eScs Brinh # & Dx KS products are neither designed non intended for use in areas such as military, aerospace, avlation, nuchair control, submarint gin-stage, in adding, sufficient reliably evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that reg

