Max-Eyth-Straße 1 · 74638 Waldenburg · Germany Tel. +49 7942 945-0 · Fax +49 7942 945-5000 eiSos@we-online.com · www.we-online.com



Product / Process Change Notification (PCN)							
⊠ Major Change							
☐ Minor Change							
PCN Number: PCN_WPME-FIMM_2024		0241122	Change Category:				
			⊠ Equipment/Location				
Affected Series: WPME-FIMM			☐ General Data				
			☐ Material				
Affected Order Codes:1769205132			☐ Process				
	☐ Product Design						
PCN Date: 2024-10-22 (YYYY-MM-DD)			☑ Shipping/Packaging☑ Supplier				
Effective Date:	2024-11-22 (YYYY-	MM-DD)	□ Softwar				
Contact:	Product Management		Datasheet 0	Change:			
Phone:	+49 (0) 7942 - 945 50	⊠ Yes	□ No				
Fax:	+49 (0) 7942 - 945 5179		Attachment	:			
E-Mail:	pcn.eisos@we-online.	com	⊠ Yes	□ No			
Description of Change	:						
Due to an improvemen	t of the production capal	oility, Würth Elektronik eiSos has sl	nifted the pro	duction of the			
	a new factory location.						
_	•	ality or reliability of the product.					
The new revision of the affected order codes will be sent out after the previous revision is out of stock							
(according to FIFO - first-in, first-out).							
Details of Change:							
All changes indicated b	elow apply to all order co	odes in this PCN.					
Previous production line		New production line					
Lot number beginning with:		Lot number beginning with:					
489xxxxxxxxxxx		682xxxxxxxxxxxxx					
Country of origin: China		Country of origin: China					

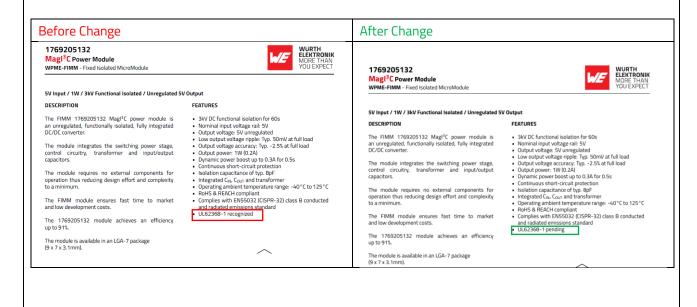
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Due to the change in production line the isolation voltage test specification has changed. The module is now 100% production tested with 3.3kV for 3 seconds. The changed test voltage level and time is indicated in the notes section within the data sheet.

Before Change After Change 4 ABSOLUTE MAXIMUM RATINGS 4 ABSOLUTE MAXIMUM RATINGS **Caution:**Exceeding the listed absolute maximum ratings may affect the device negatively and may cause permanent damage Exceeding the listed absolute maximum ratings may affect the device negatively and may cause permanent damage Table 5: Absolute maxiumum ratings LIMIT LIMIT PARAMETER SYMBOL UNIT SYMBOL PARAMETER UNIT MAX MIN⁽¹⁾ MIN⁽¹⁾ MAX⁽¹⁾ Input pin voltage Input pin voltage Output pin voltage Isolation voltage input to output for 60s Output pin voltage Isolation voltage input to output for 1sⁱ VOUT solation voltage input to output, 100% tested for 60s Isolation voltage input to output, 100% tested for 1s Assembled, non-operating storage temperature ESD Voltage (HBM), according to EN61000-4-2 operating storage ter -55 kV ESD Voltage (HBM), according to EN61000-4-2 (1) Min and Max limits are 100% production tested at 25°C. Limits over the operating temperature range are guaranteed through correlation using Statistical Quality Control (SQC) methods. (1) Min and Max limits are 100% production tested at 25°C. Limits over the operating temperature range are guaranteed through correlation using Statistical Quality Control (SQC) methods. (2) Measured without heatsink. Natural convection (0 - 20LFM / 0 - 0.1m/s) Test PCB 80mm x 80mm horizontal orientation 35µm copper on top and bottom. (2) Measured without heatsink. Natural convection (0 - 20LFM / 0 - 0.1m/s) Test PCB 80mm x 80mm horizontal orientation 35µm copper on top and bottom. (3) Typical numbers are valid at 25°C ambient temperature and represent statistically the utmost probability assuming the Gaussian distribution. (3) Typical numbers are valid at 25°C ambient temperature and represent statistically the utmost probability assuming the Gaussian distribution. (4) The human body model is a 100pF capacitor discharged through a 1.5kΩ resistor into each pin. Test method is per JESD-22-114. (4) The human body model is a 100pF capacitor discharged through a 1.5 k Ω resistor into each pin. Test method is per JESD-22-114. (5) Depending on ambient temperature, see thermal derating diagram (Output Power). (5) Depending on ambient temperature, see thermal derating diagram (Output Power). (6) Not production tested. It is a design parameter (6) Not production tested. It is a design parameter (7) Test voltage as defined by the UL62368-1. (7) Test voltage as defined by the UL62368-1. EOL test is done with elevated voltage level of 3.3kV for 3s. (8) Overload current, see Duty Cycle I_{MOC} & Temperati re Derating I_{MOC} (9) Within the complete V_{IN} operating range. (9) Within the complete V_{IN} operating range (10) MIL-HDBK-217F; GB Ground, Benign: Non mobile, temperature and humidity controlled environments readily accessible to maintenance; includes laboratory instruments and test equipment, medical electronic equipment, business and scientific computer complexes, and missiles and support equipment in ground silos; MTBF value is referring to 1769205132. (10) Due to the converter topology, the external output voltage ripple frequency is twice the internal clock frequency. (11) MIL-HDBK-217F; GB Ground, Benign: Non mobile, temperature and humidity controlled environments readily accessible to maintenance; includes laboratory instruments and test equipment, medical electronic equipment, business and scientific computer complexes, and missiles and support equipment in ground silos; MTBF value is referring to 1769205132.

Due to the change in production line the UL certification is changed to pending until the UL recognition process is fulfilled.



Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions

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Due to change in production line location the dimension of packaging as well as the amount of reels per carton have been changed.

Item	Previous production line	New production line
Cover tape length per reel	52m	46.8m
Carrier tape length per reel	51m	45.9m
Guard band length per reel	8m	7.2m
# Reels per carton	10	9

Reliability / Qualification of Change:

USt.-IdNr. DE220618976

An additional reliability testing was performed and approved. Sample size is valid for every single part number stated in this PCN unless otherwise noted.

Additional details of the tests can be found in the table below:

Test Item	Sample Size	Reference	Test Conditions	Acceptance
Temperature Cycling	25	JESD22 Method JA-104	Temperature: -40°C to 125°C Testing Time: 1000 cycles Test Cycles/h: 3 Min. soak time: 1 min	Approved
Five Times Reflow	25	Internal	Peak reflow temperature acc. datasheet solder profile reference	Approved
Electrical Characterization	30	User Spec.	Measure electrical DC performance @25°C, - 40°C, 105°C Transient performance tests @25°C	Approved
Low Temperature Storage Life	25	JESD22- A119	1000hrs @ -40°C	Approved
High Temperature Storage Life	25	JESD22- A119	1000hrs @ 125°C	Approved
High Pot Test	5	UL62368- 1	Specified isolation voltage value tested for 60s. Given design parameter tested for 1s	Approved
Unbiased Temperature Humidity	25	JESD22- A118B	264 hrs @ 110°C / 85% r.H.	Approved