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jidmawan Marshall Wang		FPM-ext-2021:15	
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jiddxiea David Xie		4/25/2021	A

For your Information

Sales and FAEs

Receiver

All of customers

Product change notification - BMR480 family

1 Products affected

All BMR480 family products will be impacted by the change.

Flex MPN	Input V_I [V]	Output V_O [V]	Output I_O [A]	R-status	New R-state
BMR480 x100/xxx*	45-56	10.4	96.2	R1D	R1E
BMR480 x102/xxx*	40-60	12	75	R1D	R1E
BMR480 x112/xxx*	40-60	12	75	R1D	R1E
BMR480 x113/xxx*	36-60	12	69	R1D	R1E
BMR480 x104/xxx*	40-60	10.4	96.2	R1D	R1E
BMR480 x114/xxx*	40-60	10.4	96.2	R1D	R1E
BMR480 x106/xxx*	45-60	12	108.3	R1D	R1E
BMR480 x116/xxx*	45-60	12	108.3	R1D	R1E
BMR480 x107/xxx*	45-60	12	108.3	R1D	R1E
BMR4803186/003E	40-60	10.4	96.2	R1D	R1E
BMR4803186/003H	40-60	10.4	96.2	R1D	R1E

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* all related product options in BMR480 series products, including:

Product number and Packaging

BMR480	n_1	n_2	n_3	n_4	/	n_5	n_6	n_7	n_8
Mechanical option	x				/				
Baseplate		x			/				
Hardware option			x	x	/				
Configuration file					/	x	x	x	

Options	Description
n_1	0 = Standard pin length 5.33 mm(0.210 in.) 2 = Lead length 3.69 mm(0.145 in.) (cut) 3 = Lead length 4.57 mm(0.180 in.) (cut)
n_2	1 = Baseplate
n_3 n_4	00 = 45-56 Vin, 10.4 Vout, with power good pin 02 = 40-60 Vin, 12 Vout, with power good pin 04 = 40-60 Vin, 9.5-10.4 Vout, with power good pin
n_5 n_6 n_7	001 = 10.4 V Standard configuration for 45-56 Vin, n_3n_4 = 00 002 = 12 V Standard configuration for 40-60 Vin, n_3n_4 = 02 003 = 10.4 V Standard configuration for 40-60 Vin, n_3n_4 = 04, 14, 15 004 = 12.5 V configuration for 42-60 Vin, n_3n_4 = 02 005 = 12 V / 1300 W configuration for 45-60 Vin, n_3n_4 = 06 017 = 10.4 V with droop load sharing function configuration for 45-56 Vin, n_3n_4 = 00 032 = 12 V with active current sharing function configuration for 40-60 Vin, n_3n_4 = 12 803 = 10.4 V with active feed forward function configuration for 40-60 Vin, n_3n_4 = 04, 14, 15 xxx = Application Specific Configuration
n_8	Blank = foam tray (default option) for wave soldering E = soft tray in dry pack for pin in paste H = hard tray in dry pack for pin in paste

Example: a 10.4V/ 1000W operating at 45-56Vin, through-hole mounted, 4.57mm short pin and power good pin product with baseplate, with droop load sharing function and deliver in hard tray would be BMR480 3100/017H

For more information about the BMR480 series, please refer to the technical specification,

https://flexpowermodules.com/products?power_module_type=IBC_AN_FR&power_module_type=IBC_AN_HR&power_module_type=IBC_DI&power_module_type=IBC_AN_NR&part_number=bmr480

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2 PCN classification

Minor change, the letter in the R-state (release state or version) is stepped, meaning that there is two-way interchangeability with the existing products. Product versions with same digit in the R-state are capable of replacing the new version, and the new version can replace earlier versions.

3 Reason for change

Flex Power modules is always continuously working with customers to support their design for manufacturing process.

Pin design is optimized to improve Paste-in-Hole process robustness.

4 Change explanation

The pin shoulder design is changed to improve outgassing within the pin barrel solder during reflow.

Before change

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After change

5 Product verification

Electrical, mechanical and production verification tests have been performed according to Flex Power Modules' product approval process.

6 Test Results

Test results have passed.

7 Safety approvals

No change to safety approvals.

8 Availability Date

New added alternative source will run into mass production since cut-in date.

Flex part number	Planned availability of samples	Planned availability of new revision	Orders accepted of existing revisions until
BMR480 x100/xxx*	April 10, 2021	April 10, 2021	May 20, 2021
BMR480 x102/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR480 x112/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR480 x113/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR480 x104/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR480 x114/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR480 x106/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR480 x116/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR480 x107/xxx*	April 20, 2021	April 30, 2021	May 20, 2021
BMR4803186/003E	April 20, 2021	April 30, 2021	May 20, 2021
BMR4803186/003H	April 20, 2021	April 30, 2021	May 20, 2021

9 Addendum

If you have any questions, please do not hesitate to contact the undersigned.

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