

Reference: QOD-510

## Product/Process Change Notification

### < End of life, Power Inductors, MPLC series >

<b>Date:</b>	<b>ID Number (MMDDYY): PCN-281025-TXD</b>
<b>Affected Products</b>	Power Inductor: <b>MPLC0730L, MPLC1040L</b> series
<b>Change</b>	Discontinuation of Power Inductors, MPLC series, MPLC0730L, 5 PNs, MPLC1040L, 5 PNs, Total 10 PNs.
<b>Justification and Benefits</b>	Last time order can be placed by April 30, 2026, so kindly ask for last time buy order for future demand by that time. Alternative proposal: MPX1D series and alternative parts list will be uploaded.
<b>Effective Date and Identification</b>	EOL effective October 31, 2026. The Last time orders can be placed by April 30, 2026, and expected delivery is by the October 31, 2026
<b>For General Information Contact</b>	<Tsuyoshi Doke> <Sr. Supervisor Central Planning & Promotion G, MSAPBU> ph:+81-3-3515-9260 E-mail: tsuyoshi.doke@yageo.com

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# Alternative Inductor Proposal

Series	End of life	Alternative
	MPLC0730L1R0	MPX1D0630L1R0
	MPLC0730L1R5	MPX1D0630L1R5
	MPLC0730L2R2	MPX1D0630L2R2
	MPLC0730L3R3	MPX1D0630L3R3
	MPLC0730L4R7	MPX1D0630L4R7
MPLC1040L***	MPLC1040L1R0	MPX1D1040L1R0
	MPLC1040L1R5	MPX1D1040L1R5
	MPLC1040L2R2	MPX1D1040L2R2
	MPLC1040L3R3	MPX1D1040L3R3
	MPLC1040L4R7	MPX1D1040L4R7

Remarks:

- \* This is to propose equivalent or close in size and in inductance value inductors as alternatives.
- \* As the other parameters like RDC, Rated Current are not identical, we recommend to refer those values and to implement a test for verification.

## Alternative Inductor Proposal

MPLC0730L*** series			End of life	Alternative
Part Number			MPLC0730L1R0	MPX1D0630L1R0
Inductance (μH) at 100kHz			1.0 ± 20%	1.0 ± 20%
DC Resistance (mΩ)		max	9.0	8.2
		typ	7.2	7.1
Rated Current (A)	I <sub>rms</sub> ※1 (Ref.)		10.6	13.1
	I <sub>sat</sub> ※2 (Ref.)		11.0	9.0
Part Number			MPLC0730L1R5	MPX1D0630L1R5
Inductance (μH) at 100kHz			1.5 ± 20%	1.5 ± 20%
DC Resistance (mΩ)		max	15.0	12.7
		typ	11.8	11.0
Rated Current (A)	I <sub>rms</sub> ※1 (Ref.)		8.6	10.5
	I <sub>sat</sub> ※2 (Ref.)		8.8	7.0
Part Number			MPLC0730L2R2	MPX1D0630L2R2
Inductance (μH) at 100kHz			2.2 ± 20%	2.2 ± 20%
DC Resistance (mΩ)		max	19.0	18.3
		typ	17.2	15.9
Rated Current (A)	I <sub>rms</sub> ※1 (Ref.)		7.3	8.7
	I <sub>sat</sub> ※2 (Ref.)		8.2	6.5
Part Number			MPLC0730L3R3	MPX1D0630L3R3
Inductance (μH) at 100kHz			3.3 ± 20%	3.3 ± 20%
DC Resistance (mΩ)		max	30.0	30.3
		typ	26.1	26.3
Rated Current (A)	I <sub>rms</sub> ※1 (Ref.)		5.7	6.8
	I <sub>sat</sub> ※2 (Ref.)		6.5	5.0
Part Number			MPLC0730L4R7	MPX1D0630L4R7
Inductance (μH) at 100kHz			4.7 ± 20%	4.7 ± 20%
DC Resistance (mΩ)		max	41.0	36.7
		typ	35.4	31.8
Rated Current (A)	I <sub>rms</sub> ※1 (Ref.)		5.0	6.2
	I <sub>sat</sub> ※2 (Ref.)		5.6	4.5

※1 T=40K rise at rated current

※2 Inductance drop 20% at rated current

## Alternative Inductor Proposal

MPLC1040L*** series			End of life	Alternative
Part Number			MPLC1040L1R0	MPX1D1040L1R0
Inductance (μH) at 100kHz			1.0 ± 20%	1.0 ± 20%
DC Resistance (mΩ)		max	5.5	3.8
		typ	3.9	3.3
Rated Current (A)	Irms ※1 (Ref.)		14.3	21.1
	Isat ※2 (Ref.)		16.2	19.5
Part Number			MPLC1040L1R5	MPX1D1040L1R5
Inductance (μH) at 100kHz			1.5 ± 20%	1.5 ± 20%
DC Resistance (mΩ)		max	7.0	5.4
		typ	5.5	4.6
Rated Current (A)	Irms ※1 (Ref.)		12.4	17.7
	Isat ※2 (Ref.)		12.7	18.0
Part Number			MPLC1040L2R2	MPX1D1040L2R2
Inductance (μH) at 100kHz			2.2 ± 20%	2.2 ± 20%
DC Resistance (mΩ)		max	10.0	7.9
		typ	7.1	6.8
Rated Current (A)	Irms ※1 (Ref.)		10.5	14.6
	Isat ※2 (Ref.)		11.0	13.0
Part Number			MPLC1040L3R3	MPX1D1040L3R3
Inductance (μH) at 100kHz			3.3 ± 20%	3.3 ± 20%
DC Resistance (mΩ)		max	14.0	12.8
		typ	11.3	11.0
Rated Current (A)	Irms ※1 (Ref.)		8.8	11.4
	Isat ※2 (Ref.)		9.3	11.0
Part Number			MPLC1040L4R7	MPX1D1040L4R7
Inductance (μH) at 100kHz			4.7 ± 20%	4.7 ± 20%
DC Resistance (mΩ)		max	19.0	15.9
		typ	15.5	13.8
Rated Current (A)	Irms ※1 (Ref.)		8.0	10.3
	Isat ※2 (Ref.)		8.0	10.0

※1 T=40K rise at rated current

※2 Inductance drop 20% at rated current

# Alternative Inductor Proposal

MPLC0730L*** series		
End of life		Alternative
<b>Size (mm)</b>		
<b>Land Pattern (mm)</b>		
<b>Packing Quantity</b>	<b>Reel min qty</b>	

MPLC1040L*** series		
End of life		Alternative
<b>Size (mm)</b>		
<b>Land Pattern (mm)</b>		
<b>Packing Quantity</b>	<b>Reel min qty</b>	