Reference: QOD-510

Product/Process Change Notification

< End of life, Power Inductors, MPLC series >

Date:	**ID Number (MMDDYY): PCN-281025-TXD**
Affected Products	Power Inductor: **MPLC0730L, MPLC1040L** series
Change	Discontinuation of Power Inductors, MPLC series, MPLC0730L, 5 PNs, MPLC1040L, 5 PNs, Total 10 PNs.
Justification and Benefits	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.
Effective Date and Identification	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
For General Information Contact	<Tsuyoshi Doke> <Sr. Supervisor Central Planning & Promotion G, MSAPBU> ph:+81-3-3515-9260 E-mail: tsuyoshi.doke@yageo.com

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 veryfication.

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）	Irms ※1	(Ref.)	10.6	13.1
	Isat ※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）	Irms ※1	(Ref.)	8.6	10.5
	Isat ※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）	Irms ※1	(Ref.)	7.3	8.7
	Isat ※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）	Irms ※1	(Ref.)	5.7	6.8
	Isat ※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）	Irms ※1	(Ref.)	5.0	6.2
	Isat ※2	(Ref.)	5.6	4.5

※1 T=40K rise at rated current

※2 Inductance drop 20% at rated current

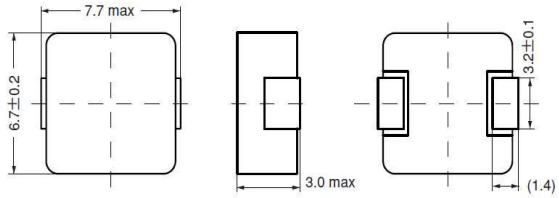
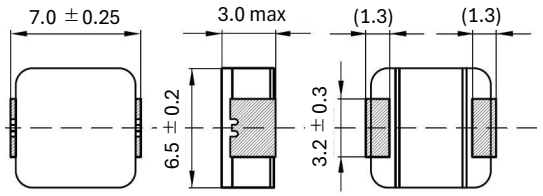
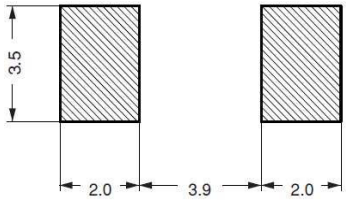
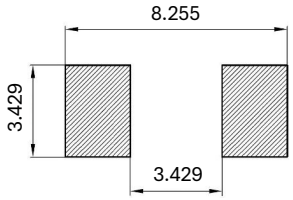
Alternative Inductor Proposal

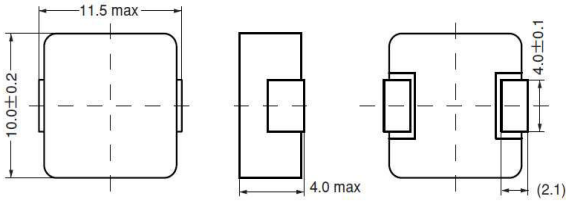
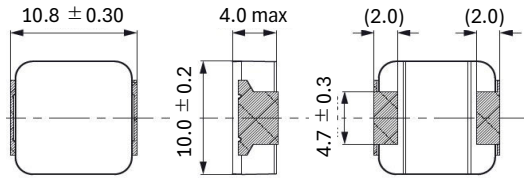
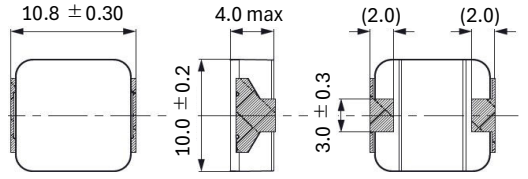
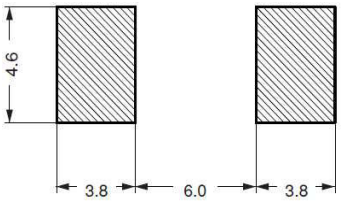
MPLC1040L*** series			End of life	Alternative
Part Number			MPLC1040L1R0	MPX1D1040L1R0
Inductance （μH）	at 100kHz		1.0±20%	1.0±20%
DC Resistance （mΩ）		max	5.5	3.8
		typ	3.9	3.3
Rated Current （A）	Irms ※1	(Ref.)	14.3	21.1
	Isat ※2	(Ref.)	16.2	19.5
Part Number			MPLC1040L1R5	MPX1D1040L1R5
Inductance （μH）	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**
Size (mm)		
Land Pattern (mm)		

	MPLC1040L*** series	
	End of life	**Alternative**
Size (mm)		【1.0/1.5μH】  【2.2/3.3/4.7μH】 
Land Pattern (mm)		【1.0/1.5μH】 【2.2/3.3/4.7μH】