



### Product Change Notice (PCN)

<b>Changed Product:</b> HERCULE-P Series MLC USB 2.0 Flash Disk Generation G5L Semi-metal Casing	<b>Doc. No.:</b> PCN_099-5LUFDMPTMA-1V0  <b>Date:</b> 2016 / 04 / 13
<b>Change Description and the reasons:</b>  Toshiba MLC flash IC manufacturing process has been upgraded from A19nm to 15nm. As Toshiba MLC A19nm flash IC chips announced EOL in 2015, in order to adapt to the MLC flash trend, APRO will now transit all Toshiba MLC A19nm products to Toshiba MLC 15nm products for longer lifetime and more stable availability.  Besides, the controller of the HERCULES-P Series MLC USB is slightly updated to support Toshiba 15nm MLC flash IC. Therefore, the 15nm MLC USB Disk is changed as HERCULES-PB Series instead of HERCULES-P Series.  If you have any questions, please contact with your APRO Sales Account Manager.	
<b>Key Dates:</b> Last Buy: 2016 / 07 / 31 Last Shipment: 2016 / 10 / 31	





Part Number List ( Max. 20 codes)			
Series		HERCULES-P	HERCULES-PB
Operating Temp.	Capacity	Before Change	After Change
Standard Temp. 0°C~70°C	32GB	SMUFD032G-MPCTMA <sup>1</sup> -5L	SMUFD032G-MPBTMB-5
	64GB	SMUFD064G-MPCTMA-5L	SMUFD064G-MPBTMB-5L
	128GB	NA	SMUFD128G-MPBTMB-5L
Wide Temp. -45B0°C~85°C	32GB	WMUFD032G-MPCTMA-5LC	WMUFD032G-MPBTMB-5C
	64GB	WMUFD064G-MPCTMA-5LC	WMUFD064G-MPBTMB-5LC
	128GB	NA	WMUFD128G-MPBTMB-5LC

**Remarks:**

1. TMA vs TMB:

TMA stands for Toshiba MLC A19nm flash IC

TMB stands for Toshiba MLC 15nm flash IC

Production Management	Engineering Department	Product Management	Sales Department
 4/13	 4/13	 4/13	 4/13
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