



## Product Change Notification - SYST-20TJYO159

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**Date:**

22 Mar 2019

**Product Category:**

Clock and Timing - Clock Generation

**Affected CPNs:****Notification subject:**

Data Sheet - SM802xxx - ClockWorks FLEX Ultra-Low Jitter Clock Generator

**Notification text:**

SYST-20TJYO159

Microchip has released a new DeviceDoc for the SM802xxx - ClockWorks FLEX Ultra-Low Jitter Clock Generator of devices. If you are using one of these devices please read the document located at [SM802xxx - ClockWorks FLEX Ultra-Low Jitter Clock Generator](#).

**Notification Status:** Final

**Description of Change:** 1) Converted Micrel document SM802xxx to Microchip data sheet DS20006176A. 2) Minor text changes throughout. 3) Updated the Crystal and Reference Input frequency ranges in the Features section and in Crystal Characteristics table. 4) Updated ESR value in Crystal Characteristics table. 5) Updated the 12 kHz to 20 MHz Phase Jitter to 265 fs in the Features and in LVPECL AC Electrical Characteristics (Note 1, Note 2, Note 3, Note 4). 6) Updated Output Frequency minimum and typical Phase Jitter in LVDS AC Electrical Characteristics (Note 1, Note 2, Note 3, Note 4), HCSL AC Electrical Characteristics (Note 1, Note 2, Note 3, Note 4), and LVCMOS AC Electrical Characteristics (Note 1, Note 2, Note 3, Note 4). 7) Corrected the impedance values for using a ferrite bead in Power Supply Decoupling section.

**Impacts to Data Sheet:** None

**Reason for Change:** To Improve Manufacturability

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 22 Mar 2019

**NOTE:** Please be advised that this is a change to the document only the product has not been changed.

**Markings to Distinguish Revised from Unrevised Devices:** N/A

**Attachment(s):**

[SM802xxx - ClockWorks FLEX Ultra-Low Jitter Clock Generator](#)

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Affected Catalog Part Numbers (CPN)

SM802001  
SM802002  
SM802003  
SM802004  
SM802005  
SM802006  
SM802101UMG  
SM802101UMG-TR  
SM802104UMG  
SM802105UMG  
SM802105UMG-TR  
SM802108UMG  
SM802109UMG  
SM802110UMG  
SM802111UMG  
SM802111UMG-TR  
SM802116UMG  
SM802116UMG-TR  
SM802121UMG-TR  
SM802128UMG  
SM802128UMG-TR  
SM802134UMG  
SM802158UMG  
SM802158UMG-TR  
SM802173UMG  
SM802181UMG  
SM802181UMG-TR  
SM802182UMG  
SM802185UMG  
SM802185UMG-TR  
SM802191UMG  
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