

IXYS ICD Product Change Notification (PCN)

PCN1088 SOIC-16 Solder Reflow Data Sheet Changes November 19, 2020

Detailed Description of Change

IXYS Integrated Circuits Division (ICD), now part of Littelfuse, has made specification changes to the Moisture Sensitivity and Soldering Profile segments contained within the Manufacturing Information section presented in the data sheets of the following devices:

IAA110P, IAA110PTR
IAB110P, IAB110PTR
IAD110P, IAD110PTR
IBB110P, IBB110PTR
ITC117P, ITC117PTR
ITC117PL, ITC117PLTR
ITC135P, ITC135PTR
ITC137P, ITC137PTR

The Moisture Sensitivity Level (MSL) classification of the 16-pin SOIC (SOIC-16) package has been changed from MSL 1 to MSL 3. In addition to the MSL classification change, the Classification Temperature (maximum body temperature) of this package has been reduced from 260°C to 245°C.

These changes are effective immediately and are documented in the recent revision of the product's data sheets which are available online at www.ixysic.com.

The PCN number assigned to this action is **PCN1088** and should be referenced in any correspondence related to the change.

Reason for Change

We have discovered a small percentage of SOIC-16 devices developed package cracking issues during lead-free soldering reflow processes. To assure these devices maintain IXYS Integrated Circuits Division quality standards it was necessary to change the MSL classification and reduce the maximum (peak) body temperature limit.

Additional factory preparation as a result of the MSL 3 classification change (bake, dry pack and seal) of these devices will protect the device package from moisture ingress while in transit and during storage. This pre-shipping treatment in conjunction with the lower maximum allowed body temperature during the lead-free soldering reflow procedure will reduce package stress during reflow.

Not only will this ensure the reliability of the devices through the PCB assembly process, it will maintain the reliability of the product over its expected lifetime.



IXYS

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Anticipated Impact on Quality and Reliability

This change will improve the quality and reliability of the product received by the customer and throughout their PCB assembly manufacturing process.

Contact Information

For any questions related to the PCN notice, please contact IXYS Integrated Circuits Division's Quality Department as indicated below:

Quality Department
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IXYS is now part of Littelfuse