

To : TTI, INC.

No. PCN-26001-01

Issue Date : 2026 / 10 / 1

TDK Corporation

Magnetics Business Group

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Process Change Notice

FS160xA/FS160x/FS100x series, Assembly Site Addition – Shunsin Technology

First of all, we would like to thank you very much for your continuous patronage toward TDK products. This letter informs your company that TDK/Faraday Semi will bring ShunSin Technology(SST) for assembly as second source suppliers in addition to ASE to increase capacity for FS160xA/FS160x/FS100x series.

SST Zhongshan is certified to ISO90001, ISO140001, and IATF16949.

Below is the manufacturing flow before and after SST qualification.

Manufacturing Flow	Current Flow	New Flow
Wafer Fab	TSMC BCD 0.18μm	TSMC BCD 0.18μm
Wafer Redistribution	ASE-KH	ASE-KH
Die Embedding Substrate	ASE-KH	ASE-KH
Assembly	ASE-Kaohsiung	ASE-KH / SST
Final Test	Greatek Electronics	Greatek Electronics

1. Planned implementation date1st January 2027**2. Samples Availability:**

* When you request samples, please inform PCN number : PCN-26001-01

* Samples are only provided in tray

* Samples are available upon request for the following P/N:

FS1606A-0600	FS1606-0600	FS1006-3300-AL
FS1604A-2500	FS1604-2500	FS1006-5000-AL
FS1604A-3300	FS1604-3300	FS1003-0600-AL
FS1603A-3300	FS1603-3300	
FS1603A-5000	FS1603-5000	

3. Qualification Plan and Results

Temperature and Humidity Biased (THB) and High Temperature Operating Life (HTOL) test are not performed in this qualification since the package is an Open Top Embedded-Die LGA-SiP. The substrate surface only consists of passive components (i.e., inductor and capacitors) without active silicon die.

The embedded-die substrate manufacturer, substrate materials, and substrate manufacturing process remain the same. Therefore, HTOL (silicon early life failure prediction) and THB (package corrosion failure) are deemed not necessary in this assembly site qualification.

Test Name	Reference	Condition	Sample Size	Results (Pass/Total)
Preconditioning	JESD22-A113	260°C, MLS-3	154 units, 3 lots	PASS
Temperature Cycling (TC) ¹	JESD22-104A	-55°C to +125°C for 1000 cycles	77 units, 3 lots	PASS
Unbiased Highly Accelerated Temperature and Humidity Test (uHAST) ¹	JESD22-A118	130°C/85% RH/96 hours	77 units, 3 lots	PASS
ESD-CDM	JS-002	Class C2B 750V ≤ Voltage (V) < 1000V	3 units	PASS

¹The samples used in these tests are subjected to preconditioning per J-STD-020 prior to the start of stress test.

4. Customer Acknowledgement/Responses/Approval

* When contacting us, please include PCN number: PCN-26001-01 in the subject line.

* This PCN procedure follows JEDEC-J-STD-046 standard.

Notification of Acknowledgement from Customers:

Please notify "Acknowledgement" within 30 days of receipt by email to TDK sales representative.

Lack of Acknowledgement of the PCN within 30 days constitutes acceptance of the change, Ref. JEDEC-J-STD-046.

PCN Customer Approval:

After acknowledgement, when you need Approval, questions, sample request or further information, please contact your TDK sales representative.

Please notify "Approval" in written form or by email to TDK sales representative.

The period of official customer approval of the PCN is up to 90 days from the PCN issue date. Once customer approve the PCN, the change becomes effective.

If there are not any contacts by the end of December 2026, we would like to start shipping out our changed products from January 2027.

Planned Date : January 1 st , 2027	Response Date By : December 31 st , 2026	Last Order date for current spec : Not Applicable
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Attachment :

ANSWER SHEET

To TDK Corporation Magnetics Business Group	Company Department Name
Approval Date: _____	Directions

