

Qualification Report Summary

RELIABILITY LABORATORY

PCN #: DSNO-27LQNU640

Date
October 20, 2026

Qualification of FSTS as an additional assembly site for DN2540N5-G and DN2535N5-G catalog part numbers (CPN) available in 3L TO-220 package.

PACKAGE QUALIFICATION REPORT

Purpose:

Qualification of FSTS as an additional assembly site for DN2540N5-G and DN2535N5-G catalog part numbers (CPN) available in 3L TO-220 package.

QUAL ID:	R2600209 (Rev. A)
MP CODE:	630039F8XB00
Part No.:	DN2540N5-G
Bonding No.:	BD-003926-02
CCB No.:	7932

Lead Frame

Paddle Size:	258x154mils
Material:	C19210
DAP Surface Prep:	Ag Plating
Process:	Stamp
Lead Lock:	Yes
Part Number:	01-02-00706-001-07-0004
Lead Plating:	MatteSn
LF Treatment:	Non-Rough
Strip Size:	254x31.44mm
Strip Density:	20

Bond Wire

Wire:	Au

Die Attach Material

Epoxy:	CRM-1800
Conductive:	Yes

Mold Compound

Mold Compound:	G700HF

Package

Type:	TO-220
Package Lead Count:	3

Manufacturing Information

Assembly Lot No.
FSTS264300001.000
FSTS264300002.000
FSTS264300003.000

Conclusion:

Qualification of 63003 mask / DN2540N5-G product / Au wire in 3L TO-220 package at FSTS site is qualified pass reliability test as per QCI-39000.

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result
High Temp Storage	175°C / 504 hours **Electrical Test:** 25°C **Tester:** ETS300_HV	JESD22-A103	45 units each lot / 1 lots	0/45	Pass
Temperature Cycling	-65°C / +150°C Air to Air / 500 Cycles **Electrical Test:** 25°C **Tester:** ETS300_HV	JESD22-A104	77 units each lot / 3 lots	0/77, 0/77, 0/77	Pass
Biased HAST	+130°C / 85%RH / 96 hours / Bias Voltage: 20.0V **Electrical Test:** 25°C **Tester:** ETS300_HV	JESD22-A110	77 units each lot / 3 lots	0/77, 0/77, 0/77	Pass
Unbiased HAST	+130°C / 85%RH / 96 hours **Electrical Test:** 25°C **Tester:** ETS300_HV	JESD22-A118	77 units each lot / 3 lots	0/77, 0/77, 0/77	Pass
Solderability (0 Hr) Method 1: Dip and Look	Pb-free 8 hours Steam age. Dip at 245°C, 100% leads >95% lead coverage	J-STD-002 / JESD22B-102	22 units / 1 lot	0/22	Pass
Physical Dimension (0Hr)	Within package diagram dimension	JESD22 B100 and B108	10 units each lot / 1 lots	0/10	Pass
Wire Pull	Bond Strength Data Assembly	Mil. Std. 883-2011	5 units / 1 lot	0/5	Pass
Bond Shear	Bond Strength Data Assembly	CDF-AEC-Q100-001	5 units / 1 lot	0/5	Pass
Bond Line Thickness	0.60-1.50mils	SPI-45528	5 units each lot / 3 lots	0/15	Pass
Wire sweep	15%	X-ray	5 wires each lot / 3 lots	0/15	Pass