

*In accordance with MIL-PRF-38535*

#	Process Flow Steps	Method / Condition	Sampling
1	Wafer Lot Acceptance	QM plan	
2	Die Sawing and Select	Internal procedure and MIL-STD-883 TM2010 / B	100%
3	Die attach	Internal procedure	100%
4	Die shear or Stud pull	MIL-STD-883 TM2019 or TM2027	Monitoring
5	Wire bonding	Internal procedure	100%
6	Destructive Wire Bond pull	MIL-STD-883 TM2011	Monitoring *
7	Wire Bond shear	Internal procedure / ASTM F 1269-06	Monitoring if appl.
8	Internal Visual Inspection	Internal procedure and MIL-STD-883 TM2010 A	100%
9	Lid attach / Sealing	Internal procedure	100%
10	Constant acceleration	MIL-STD-883 TM2001 / E	100% If appl.
11	Marking	Internal procedure / per Device Specification	100%
12	Temperature Cycling	MIL-STD-883 TM1010 / C / 10 cycles	100%
13	Pre-Burn-in electrical	Per Device Specification / +25°C / +datalog	100%
14	Dynamic burn-In	MIL-STD-883, TM1015 cond. D 160Hrs / 125°C	100%
15	Post-Burn-In (Interim) Electrical	Per Device Specification / +25°C / +datalog	100%
16	PDA	5% PDA (amb temp) / +datalog	By lot
17	Termination attach	Internal procedure or 6 Sigma assembly or n/a if LGA package	100% If appl.
18	Fine & Gross leaks test	MIL-STD-883, TM1014 / A / C	100%
19	Final Electrical (+Group A)	Per Device Specification / +25°C	100%
20	Extreme temp. Electrical (+Group A)	Per Device Specification	100%
21	Physical dimension control	Per Device Specification	100%
22	External Visual	MIL-STD-883 TM2009	100%
23	Packing	Internal procedure	100%
24	Certificate of Compliance	MIL-PRF-38535	By delivery

Quality Conformance Inspection (QCI)	Method / Condition	Termination	Sampling
Group A - Ambient temp. Elect. test	MIL-PRF-38535 - Table III - in accordance with SMD	Yes	All lots
Group A - Extreme temp. Elect. test	MIL-PRF-38535 - Table III - in accordance with SMD	No	All lots
Group B – Assembly Capability	MIL-PRF-38535 - Table II - Subgroup 1, 2, 3, 4	Yes	All lots
Group C - Steady-state life test	MIL-PRF-38535 - Table IV - Subgroup 1	No	Per diffusion lot
Group D - Package related test	MIL-PRF-38535 - Table V - Subgroup 1, 2, 3, 4, 5, 6	No	All lots

* Quality notes	Sampling
Screening for LGA / CCGA / CI-CGA packages	-
100% Non Destructive Bond Pull test TM2023 substituted by monitoring Destructive Bond Pull test per TM2011	All lots

Useful address / Link
Mil Specs and Drawings <a href="http://www.landandmaritime.dla.mil">www.landandmaritime.dla.mil</a>
Contact Teledyne-e2v Marketing <a href="mailto:semiconductors.MKT@Teledyne-e2v.com">semiconductors.MKT@Teledyne-e2v.com</a>
Visit teledyne-e2v website <a href="http://www.Teledyne-e2v.com">www.Teledyne-e2v.com</a>