## Texas Instruments Engineering Material Samples versus MIL-PRF-38535 QML Class V Processing

These units are intended for engineering evaluation only. They are processed to a non-compliant flow (such as no burn-in and only 25°C testing). These units are not suitable for qualification, production, radiation testing, or flight use. Parts are not warranted as to performance over temperature or operating life.

	Processing Step	MIL-PRF-38535 QML Class V	Engineering Material Samples
Qualified Production Facilities and Material Set	QML V Qualified Die and Wafer Fab	Yes	Contact TI for additional details
	QML V Qualified Assembly Site	Yes	Contact TI for additional details
	Qualified Hermetic Package With Class V Material Set (Die Attach, Bondwire, Lid Seal)	Yes	Contact TI for additional details
Wafer Lot Acceptance		Yes	Optional
Pre-Seal Visual Inspection – Condition A		100% at 100X and 40X	No
Pre-Seal Visual Lot Acceptance – Condition A		45(0) at 100X and 40X	40X only
Temperature Cycle		Yes	No
Centrifuge		Yes	No
Particle Impact Noise Detection (PIND)		Yes	No
X-Ray (Radiography)		Yes	No
Pre Burn-in +25°C Electrical Test		Yes	No
Burn-In +125°C for 240 Hours or equivalent		Yes	No
+25°C Electrical Test		Yes	Yes
PDA Calculations		Yes	No
+25°C Group A Lot Acceptance		116(0)	No
+125°C Electrical Test		Yes	No
+125°C Group A Lot Acceptance		116(0)	No
-55°C Electrical Test		Yes	No
-55°C Group A Lot Acceptance		116(0)	No
Hermeticity – Fine Leak		Yes	Yes
Hermeticity – Gross Leak		Yes	Yes
External Visual Inspection		Yes	No
External Visual Lot Acceptance		45(0)	45(0)
Quality Conformance Inspection		Yes	No
Processing Conformance Report / QCI Summaries		Yes	No

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