

# COSPHERIC Glass Sphere Qualification Results/Plan



Project Owner: Ariel Villareal/ Enero Policarpio

# In-Line Monitors and Screening Test (Reference: MIL-STD-883)

**Die Attach Evaluation Material:** COSPHERIC Glass Sphere

**Package:** 8L TO5

**Device:** LTZ1000ACH

**Lot ID:** G198566.7 [Assembly Lot]/ [AW65043.1 Test Lot]

Test Description	Sample Size	Results	Remarks
Wire Pull Test	5 units (all wires)	0/50	Pass
Third Optical Inspection	100%	95% (within plan yield / no failure related to package)	Pass
Fine Leak Test	100%	100%	Pass
Gross Leak Test	100%	100%	Pass
Final Visual Inspection	100%	100%	Pass
Electrical Test	100%	0/38	Pass

# Reliability Tests (Reference: MIL-STD-883)

Test Description	Test Method	Qty. (Accept #)	Sample size (pcs.)	No. Of Rejects	Remarks
<b>SUBGROUP 1</b>		17 (0)			
Physical Dimensions	2016		17		<b>Result by April 2023</b>
<b>SUBGROUP 2</b>		6 (0)			
Lead Integrity	2004/B2		6		<b>Result by April 2023</b>
Fine Leak Test	1014/A		6		<b>Result by April 2023</b>
Gross Leak Test	1014/C		6		<b>Result by April 2023</b>
<b>SUBGROUP 3</b>		17 (0)			
Test @ +25C			17		Pass
Thermal Shock	1011/B		17		Pass
Temperature Cycle	1010/C		17		Pass
Moisture Resistance	1004		17		Pass
Visual Inspection	1004/1010		17		Pass
Test @ +25C			17		Pass
Test @ -55C			17		Pass
Test @ +125C			17		Pass
Fine Leak Test	1014/A		17		Pass
Gross Leak Test	1014/C		17		Pass

# Reliability Tests (Reference: MIL-STD-883)

Test Description	Test Method	Qty. (Accept #)	Sample size	No. Of Rejects	Remarks
<b>SUBGROUP 4</b>		17 (0)			
Test @ +25C			17	0	Pass
Mechanical Shock	2002/B		17	0	Pass
Vibration Variable Frequency	2007/A		17	0	Pass
Constant Acceleration	2001/E		17	0	Pass
Fine Leak Test	1014/A		17	0	Pass
Gross Leak Test	1014/C		17	0	Pass
Visual Exam	2007		17	0	Pass
Test @ +25C			17	0	Pass
Test @ -55C			17	0	Pass
Test @ +125C			17	0	Pass
<b>SUBGROUP 5</b>		17 (0)			
Salt Atmosphere	1009/A		17		<b>Result by April 2023</b>
Visual Exam	1009		17		<b>Result by April 2023</b>
Fine Leak Test	1014/A		17		<b>Result by April 2023</b>
Gross Leak Test	1014/C		17		<b>Result by April 2023</b>
<b>SUBGROUP 6</b>		3 (0)			
Internal Water Vapor Content	1018		3	0	Pass
<b>SUBGROUP 7</b>		17 (0)			
Adhesion of Lead Finish	2025		17 Leads		<b>Result by April 2023</b>