



SKYWORKS®

High-reliability Process Option Flow Chart for Hermetic Optocouplers

(Provided Through Isolink, a Wholly-owned Subsidiary of Skyworks Solutions)

Table 1. -SX Flow⁽²⁾ – Similar to Jan TX

100% Screening	MIL-STD-750 Test Methods
Preseal Visual Method 2072	
Stabilization Bake Method 1032, 24 Hrs. @ 125 °C	
Temperature Cycle Method 1051, 10 Cycles, -55 °C to 125 °C	
Constant Acceleration Method 2006, 10,000 G, Y1 Axis	
Fine Leak Method 1071, Condition H	
Gross Leak Method 1071, Condition C	
Electrical Test ⁽¹⁾ 100% Go / No-Go, 25 °C DC Parameters	
High-Temperature Reverse Bias Method 1039, Condition A, 48 Hrs. @ 125 °C	
Electrical Test ⁽¹⁾ 100% Go / No-Go, 25 °C DC Parameters	
Power Burn-In Method 1039, Condition B, 160 Hrs. @ 25 °C	
Electrical Test ⁽¹⁾ 100% Go / No-Go, 25 °C DC Parameters	
Group A Product Acceptance Tests:	
Subgroup 1, Visual/Mechanical, LTPD 5 Subgroup 2, DC Tests @ 25 °C, LTPD 5 Subgroup 3, DC Tests @ Min./Max., LTPD 5 Subgroup 4, AC Tests @ 25 °C, LTPD 5	
Lot Qualification Groups B and C - (Optional for SX Program)	
External Visual Method 2071	

Table 2. -SB Flow – Similar to MIL-STD-883C, Class B

100% Screening	MIL-STD-883C Test Methods
Preseal Visual Method 2017, Condition B	
Stabilization Bake Method 1008, Condition C, 24 Hrs. Min. @ 150 °C	
Temperature Cycle Method 1010, Condition C, 10 Cycles, -65 °C to 150 °C	
Constant Acceleration Method 2001, Condition A, 5,000 G, Y1 Axis	
Fine Leak Method 1014, Condition A	
Gross Leak Method 1014, Condition C	
Electrical Test ⁽¹⁾ 100% Go / No-Go, 25 °C DC Parameters	
Burn-In Method 1015, Condition B, 160 Hrs. Min. @ 125 °C	
Electrical Test ⁽¹⁾ 100% Go / No-Go, 25 °C DC Parameters	
Group A Product Acceptance Tests: Method 5005	
Subgroup 1, DC Tests @ 25 °C, LTPD 2 Subgroup 2, DC Tests @ 125 °C, LTPD 3 Subgroup 3, DC Tests @ -55 °C, LTPD 5 Subgroup 9, Switching Tests @ 25 °C, LTPD 2 Subgroup 10, Switching Tests @ 125 °C, LTPD 3 Subgroup 11, Switching Tests @ -55 °C, LTPD 5	
Lot Qualification Groups B, C, D - (Optional for SB Program)	
External Visual Method 2071	

1: Read and Record with delta and percent values is optional.

2: -SX process flow is for 4N2X / 4X products only.