



W72M64VK-XBX Construction and Qualification Quality and Reliability Report

W72M64VK-XBX PACKAGE CONSTRUCTION + QUALIFICATION

ORGANIZATION

- 2M x 64 (4 banks per Flash)

ENCAPSULANT

- The encapsulant is not injection molded to control wire sweep effects
- $T_G = 150\text{ }^\circ\text{C}$
- Moisture sensitivity is to JEDEC level 3

INTERPOSER MATERIAL

- CTE = 12-13 ppm / $^\circ\text{C}$
- Water absorption = 0.13%

BALLS

- Eutectic solder Sn63/Pb37
- Diameter = 0.762mm (0.030) Typical

TEST

- Burn-In – 100%-48 hours at 125 $^\circ\text{C}$
- Final Electrical Test – 100% at maximum and minimum ambient temperatures

Temperature Ranges Available:

-55 $^\circ\text{C}$ to +125 $^\circ\text{C}$

-40 $^\circ\text{C}$ to +85 $^\circ\text{C}$

0 $^\circ\text{C}$ to +70 $^\circ\text{C}$

SHIPPING

- Final bake out
- Shipped in JEDEC standard trays and anti-static shielded dry pack bags
- Humidity indicator cards are included
- Desiccant used in dry packs

QUALIFICATION INFORMATION

Qual for 208 PBGA Product					
Qual Test	# of Pieces	Duration	Reference Standards	Temp. Range	Results
Preconditioning	All Test Samples		EIA/JESD22 Method A113 (level 3)		Pass
Bias Life Test	15	1000 hrs.	EIA/JESD22 Method A108	125 $^\circ\text{C}$	15 Pass
Temperature Cycle	15	1000 cycles	EIA/JESD22 Method A104 Condition B	-55 $^\circ\text{C}$ to +125 $^\circ\text{C}$	15 Pass
85/85 Bias	15	1000 hrs.	EIA/JESD22 Method 101	85 $^\circ\text{C}$ /85RH	15 Pass

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