

Product Name: TC62D748CFNAG

Package Name: SSOP24

1. Thermal tests

Test Item	Test Condition	Failure Size / Sample Size
Resistance to Soldering Heat with Soldering Iron	400deg.C (temperature at soldering iron tip), 3s 2 times	0 / 32
Resistance to Soldering Heat for Packages	Reflow peak temperature and moisture soak conditions are specified per package type. 2 times	0 / 32
Temperature Cycling	-65deg.C (20min) to 25deg.C to 150deg.C (20min) to 25deg.C 300 cycles	0 / 32
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2. Mechanical tests

Test Item	Test Condition	Failure Size / Sample Size
Solderability	Solder temperature : 230deg.C for Solder type Sn-37Pb 245deg.C for Solder type Sn-3Ag-0.5Cu Solder immersion time : 5s ,Flux type : non-active flux ,1 time	0 / 22
Lead Integrity (Tension)	Tension : according to relevant specification Maintain the specified tension for 30s	0 / 22
-	-	-
-	-	-
-	-	-

3. Life tests

Test Item	Test Condition	Failure Size / Sample Size
High Temperature Operating Life	Max operating temperature, Max operating voltage ,1000h	0 / 32
High Temperature Storage Life	Max storage temperature ,1000h	0 / 32
High Temperature High Humidity Bias	Ta=85deg.C, RH=85%, Max operating voltage ,1000h	0 / 32
Autoclave (Pressure Cooker)	Ta=127deg.C, RH=100%, 246kPa ,120h	0 / 32
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-	-	-

Estimated Failure Rate

Product Name	Estimated Failure Rate
TC62D748CFNAG	35.8 Fit

Note)

This failure rate was calculated on the assumption that the device operated normally at $T_a = 55 \text{ deg.C}$, under normal environmental conditions without any surge, etc.

This calculation was performed at development stage using data from the same technology with the reported device above.

The Estimated Failure Rate contained herein represents the result of our internal product reliability tests, and is provided for your reference only.
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