RELIABILITY TEST DATA

Product Name: FA-238A

The Company evaluation condition

We evaluate environmental and mechanical characteristics by the following test condition .

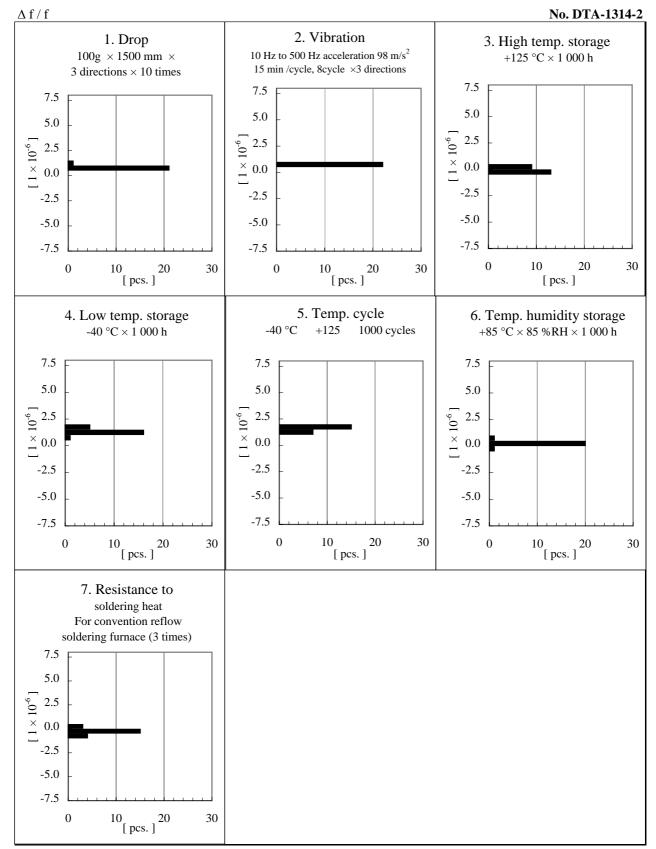
No. DTA-1314-1

			VALUE *1 *2	TEST	FAIL
No.	ITEM	TEST CONDITIONS	$\Delta f / f$	Qty	Qty
			$[1 \times 10^{-6}]$	[n]	[n]
1	Drop	100g dummy Jig (Epson Standard)	*3	[]	[]
		drop from 1500 mm height on the Concrete	± 5	22	0
		3 directions 10 times			
2	Vibration	10 Hz to 55 Hz amplitude 0.75 mm	*3 ± 5		
		55 Hz to 500 Hz acceleration 98 m/s2			
		10 Hz 500 Hz 10 Hz 15 min./cycle		22	0
		6 h (2 hours, 3 directions)			
3	High temperature storage	+125 °C × 1 000 h	*3 ± 10	22	0
		1.120 0.11 000 11			
	•		*3		
4	Low temperature	-40 °C × 1 000 h	± 5	22	0
	storage				
		-40 °C + 125 °C	*3		
5	Temperature cycle		± 10	22	0
		30 min at each temp. 1000 cycles			
6	Temperature humidity storage	+85 °C × 85 %RH × 1 000 h	*3 ± 5		
				22	0
	Resistance to	For convention reflow soldering furnace			
7	soldering heat	(3 times)	± 5	22	0
	8	` ′			
8	Substrate bending	Bend width reaches 3.0 mm and hold for	No peeling-off at a soldered part	11	0
		20 s ± 1 s × 1 time Ref. IEC 60068-2-21			
		Ref. IEC 00008-2-21	-		
9	Shear	10 N press for 10 s ± 1 s Ref. IEC 60068-2-21	No peeling-off at a soldered	11	0
			part	11	0
-					
10	Pull – off	10 N press for $10 \text{ s} \pm 1 \text{ s}$	No peeling-off at a soldered	11	0
		Ref. IEC 60068-2-21	part		
		Dip termination into solder bath at	Termination must be		\vdash
11	Solderability	$+230^{\circ}\text{C} \pm 10^{\circ}\text{C}$ for 5 s	95 % covered	11	0
	~ =====================================	(Using Rosin Flux)	with fresh solder		Ĭ
		(00.000 100.000)	,, 101 11 con conde		

Notes

- 1. *1 Each test done independently.
- 2. *2 measuring 24 h later leaving in room temperature after each test.
- 3. *3 Item No.1 to No.6 shall be tested after following pre conditioning. Measuring 24 h later leaving in room temperature after Pre conditioning. Pre conditioning: Reflow 3 times.
- 4. Item No.1 to No.7, Shift motional resistance at after above tests should be less than 20 % or less than 10

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