RELIABILITY TEST



Recommended Soldering Conditions

(REFLOW TEMPERATURE PROFILE) Lead-Free

А	260 \pm 5 $\%$
В	230 \pm 5 $\%$
С	30 ±10 sec
D	150 ℃
Е	180 ℃
F	90 ± 30sec



RELIABILITY TEST

Terminal strength	The terminal electrode and the body shall not be damaged by the forces applied on the right conditions.	Туре	P (kgf)	Time (s)
		TD100505	0.3	
		T□160808	0.5	
	N	T□201209	0.6	
	$\blacksquare \blacksquare $	T□201212	0.8	
		T□321611	1.0	
		T□322513	1.0	$\textbf{30} \pm \textbf{5}$
		T□451616	1.0	
		T□453215	1.5	
		TA3216M/	05	
			0.0	
Bending strength	The body shall not be damaged by the forces applied on the right conditions. $ P(N) $	Туре	A (mm)	P (kgf)
Bending strength	The body shall not be damaged by the forces applied on the right conditions. $\bigvee_{i=1}^{P(N)} P(N)$		A (mm)	P (kgf) 0.5
Bending strength	The body shall not be damaged by the forces applied on the right conditions. $P^{(N)}$	Type T□160808 T□201209	A (mm) 1.0 1.4	P (kgf) 0.5 1.0
Bending strength	The body shall not be damaged by the forces applied on the right conditions. P(N) $P(N)$ $V: 30 mm/min$	TU160808 TU201209 TU201212	A (mm) 1.0 1.4 1.4	P (kgf) 0.5 1.0 1.2
Bending strength	The body shall not be damaged by the forces applied on the right conditions. P(N)	Tupe Tupe Tupe Tupe Tupe Tupe Tupe Tupe	A (mm) 1.0 1.4 1.4 2.0	P (kgf) 0.5 1.0 1.2 2.0
Bending strength	The body shall not be damaged by the forces applied on the right conditions. P(N)	TU201209 TU201212 TU201212 TU201212 TU221611 TU322513	A (mm) 1.0 1.4 1.4 2.0 2.0	P (kgf) 0.5 1.0 1.2 2.0 2.5
Bending strength	The body shall not be damaged by the forces applied on the right conditions. P(N) $F(N)$ $F(N)$ $F(N)$ $F(N)$ $F(N)$ $F(N)$ $F(N)$ $F(N)$ $F(N)$	Type TD160808 TD201209 TD201212 TD321611 TD322513 TD451616	A (mm) 1.0 1.4 1.4 2.0 2.0 2.5	P (kgf) 0.5 1.0 1.2 2.0 2.5 2.5
Bending strength	The body shall not be damaged by the forces applied on the right conditions. P(N) $V:30 mm/min$ $V:30 mm/min$ $V:30 mm/min$	Type TD160808 TD201209 TD201212 TD321611 TD322513 TD451616 TD453215	A (mm) 1.0 1.4 1.4 2.0 2.0 2.5 2.7	P (kgf) 0.5 1.0 1.2 2.0 2.5 2.5 2.5 2.5

RELIABILITY TEST

Item	Performance	Test condition		
High temperature resistance	Appearance: Ferrite shall not be damaged. Impedance: Within±20% of the initial value.	Temperature: 85±2°C Testing time: 1008±12 hours Measurement: After placing for 24 hours min.		
		85 °C Room temperature 1008 hours 24 hours		
Humidity resistance	Appearance: Ferrite shall not be damaged.	Humidity: 90 to 95% RH		
		Testing time: 1008±12 hours Measurement: After placing for 24 hours min.		
		40 °C Room temperature 1008 hours 24 hours		
Thermal Shock	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within±20% of the initial value	Temperature: -40°C, +85°C, kept stabilized for 30 minutes each Cycle: 100 cycles Measurement: After placing for 24 hours min.		
		Room temperature 30 minutes 30 minutes		
Low temperature storage life test	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within±20% of the initial	Temperature: $-40\pm2^{\circ}C$ Testing time: 1008 \pm 12 hours Measurement: After placing for 24 hours min.		
	ναιας.	Room temperature -40 °C		