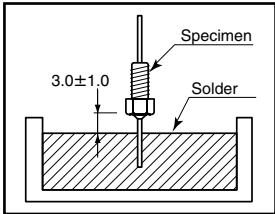


PERFORMANCE AND TEST METHOD

Item	Performance	Testing method and conditions																		
Withstanding voltage	No damage	Rated voltage < 400 Vdc: 250% of rated voltage is applied for 1-5 seconds. Rated voltage ≥ 400 Vdc: 200% of rated voltage is applied for 1-5 seconds.																		
Insulation resistance	Greater than 10000 MΩ	Rated voltage is applied for 1 min. ±5 sec.																		
Temperature characteristics	Capacitance change rate CG : 0±30ppm/°C B : ±10% D : +20, -30% E : +20, -55% F : -30, -80% R : ±15% S : ±22% SL : +350--1000ppm/°C	20°C is used to calculate the maximum capacitance change rate within the rated temperature range #. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>#</th> <th>CG, R</th> <th>B, D, E, F, S, SL</th> </tr> </thead> <tbody> <tr> <td>Maximum operation temp.</td> <td>+125°C</td> <td>+85°C</td> </tr> <tr> <td>Minimum operation temp.</td> <td>- 55°C</td> <td>-25°C</td> </tr> </tbody> </table>	#	CG, R	B, D, E, F, S, SL	Maximum operation temp.	+125°C	+85°C	Minimum operation temp.	- 55°C	-25°C									
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Maximum operation temp.	+125°C	+85°C																		
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Solderability (lead)	75% or more of the immersed area shall be covered with new solder.	Soldering temperature : 230±5°C Immersion time : 3 ±1 sec. Flux : rosin methanol																		
Fastening screw	No abnormality	Fastening torques are specified in table below. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Type No.</th> <th>Fastening torque</th> </tr> </thead> <tbody> <tr> <td>FTA30, FTB30, FTA32</td> <td>0.294N•m</td> </tr> <tr> <td>FTT30</td> <td>0.294N•m</td> </tr> <tr> <td>FTA35, FTP30</td> <td>0.490N•m</td> </tr> <tr> <td>FTA41, FTA4D</td> <td>0.588N•m</td> </tr> <tr> <td>FTT4C</td> <td>0.392N•m</td> </tr> <tr> <td>FTP40, FTT40, FTT41</td> <td>0.588N•m</td> </tr> <tr> <td>FTA5B, FTA5C, FTB50</td> <td>0.588N•m</td> </tr> <tr> <td>FTP82</td> <td>0.735N•m</td> </tr> </tbody> </table>	Type No.	Fastening torque	FTA30, FTB30, FTA32	0.294N•m	FTT30	0.294N•m	FTA35, FTP30	0.490N•m	FTA41, FTA4D	0.588N•m	FTT4C	0.392N•m	FTP40, FTT40, FTT41	0.588N•m	FTA5B, FTA5C, FTB50	0.588N•m	FTP82	0.735N•m
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Lead bending strength	No abnormality	Bent 45° angle, then bent 45° angle on opposite direction, then bent original place.																		
Lead pull strength	No abnormality	Fasten the screw, and pull the lead wire with static load 2±0.3kg for 10±1sec.																		
Vibrations	No abnormality	Vibrate to X, Y, Z direction each for 20min. Frequency : 10-55Hz Amplitude : 1.5mm p-p Cycle of frequency change : 1 min.																		
Soldering heat resistance	Visual	No remarkable change																		
	Capacitance change rate	Within ±15%																		
	Dissipation factor	Less than 3.5%																		
	Insulation resistance	5000MΩ min.																		
Temperature cycle	Visual	No remarkable change																		
	Capacitance change rate	Within ±20%																		
	Dissipation factor	Less than 5%																		
	Insulation resistance	1000MΩ min.																		
Life test at high Temperature load	Visual	No remarkable change																		
	Capacitance change rate	Within ±20%																		
	Dissipation factor	Less than 5%																		
	Insulation resistance	1000MΩ min.																		
Humidity load test	Visual	No remarkable change																		
	Capacitance change rate	Within ±20%																		
	Dissipation factor	Less than 5%																		
	Insulation resistance	1000MΩ min.																		

Lead length for immersion : 3.0±1.0mm
Dipping time : 10sec.
Recovery : The specimen is allowed to stand for 4 to 24hrs.
Soldering temperature : 300±3°C



The cycle specified below is repeated 25 times. Let stand at room temperature for 4-24 hrs out of the bath, and then measure electric characteristics.

1	Minimum operation temp.	60 min.
2	Room temp.	5 min.
3	Maximum operation temp.	60 min.
4	Room temp.	5 min.

Test temp : Maximum operation temp. ±3°C
Test time : 1000±24 hrs.
200% of rated voltage is applied.
Recovery : The specimen is taken out of the bath and allowed to stand at room temperature for 4 to 24hrs.

Relative humidity : 9-95%
Test temp : 40±2°C
Test time : 500±12 hrs.
Rated voltage is applied.
Recovery : The specimen is taken out of the bath and allowed to stand at room temperature for 4 to 24hrs.