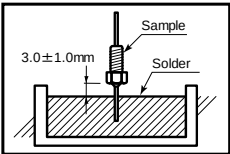
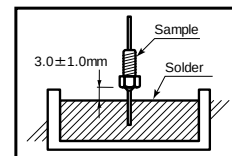


Performance and Test Methods

■ Performance and Test Methods

Item		Performance	Test Methods and Conditions																			
Withstanding Voltage		No damage	Rated Voltage < DC400V : 250% of rated voltage applied for 1-5sec. Rated Voltage ≥ DC400V : 200% of rated voltage applied for 1-5sec.																			
Insulation Resistance		10000 MΩ or more	Rated voltage applied for 1 min. ±5sec.																			
Capacitance 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	The maximum capacitance change rate within the rated temperature range (#) , 20°C as a reference. <table><tr><th>#</th><th>CG, R</th><th>B, D, E, F, S, SL</th></tr><tr><td>Maximum Operation Temp.</td><td>+125°C</td><td>+85°C</td></tr><tr><td>Maximum Operation Temp.</td><td>-55°C</td><td>-25°C</td></tr></table>		#	CG, R	B, D, E, F, S, SL	Maximum Operation Temp.	+125°C	+85°C	Maximum Operation Temp.	-55°C	-25°C									
#	CG, R	B, D, E, F, S, SL																				
Maximum Operation Temp.	+125°C	+85°C																				
Maximum Operation Temp.	-55°C	-25°C																				
Solderability (Terminal)		75% or more of the immersed area shall be covered with new solder.	Soldering Temp.: 230°C Immersion Time: 3±1 sec. Type of Solder: H63A Flux: Rosin nethanol																			
Tensile Strength of Termination		No particular issue	Use nuts and fasten by torques which are specified in table below. <table><tr><th>Type No.</th><th>Fastening Torque</th></tr><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></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
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																					
Lead Bending Strength		No particular issue	(1) Bending 45° angle, then bending to original place (2) Bending 45° angle on opposite direction, then bending to original place																			
Lead Pull Strength		No particular issue	Fasten the screw, and pull the lead wire with static load 2.0±0.3kg for 10±1 sec.																			
Vibrations		No particular issue	Vibrate to X, Y, Z direction each for 2 hours Frequency: 10~55Hz Cycle: 1.5mm p-p Cycle of Frequency Change: 1 min.																			
Soldering Heat Resistance	Visual	No remarkable change	Lead Length for Immersion: 3.0±1.0mm Dipping Time: 10 sec. Measurement: after 4~24 hours left Soldering Temp.: 300±3°C 																			
	Capacitance Change Rate	Within ±15%																				
	Dissipation Factor	3.5% or less																				
	Insulation Resistance	5,000MΩ or more																				
Temperature Cycle	Visual	No remarkable change	The cycle specified on the right table is repeated 25 times. Leaving a sample under the room temperature for 4~24 hours, then measuring electric al characteristics. <table><tr><td>1</td><td>Minimum Operation Temp.</td><td>30 min.</td></tr><tr><td>2</td><td>Room Temp.</td><td>5 min.</td></tr><tr><td>3</td><td>Maximum Operation Temp.</td><td>30 min.</td></tr><tr><td>4</td><td>Room Temp.</td><td>5 min.</td></tr></table>		1	Minimum Operation Temp.	30 min.	2	Room Temp.	5 min.	3	Maximum Operation Temp.	30 min.	4	Room Temp.	5 min.						
	1	Minimum Operation Temp.			30 min.																	
	2	Room Temp.			5 min.																	
	3	Maximum Operation Temp.			30 min.																	
4	Room Temp.	5 min.																				
Capacitance Change Rate	Within ±20%																					
Dissipation Factor	5% or less																					
Insulation Resistance	1,000MΩ or more																					
Life Test at High Temperature Load	Visual	No remarkable change	Put the sample in the evaluation tank which is maximum temperature ±3°C, and apply rated voltage for 200% for 1,000±24 hours. Then, take the sample out of evaluation tank, and leave in the room temperature for 4-24 hours, and measure the electrical characteristics.																			
	Capacitance Change Rate	Within ±20%																				
	Dissipation Factor	5% or less																				
	Insulation Resistance	1,000MΩ or more																				
Humidity Load Test	Visual	No remarkable change	Put the sample in the evaluation tank which the temperature is 40±2°C and the relative humidity is 90-95%, then apply rated voltage for 500±12 hours. After that, take the sample out of the tank, then leave in the room temperature for 4-24 hours, and measure the electrical characteristics.																			
	Capacitance Change Rate	Within ±20%																				
	Dissipation Factor	5% or less																				
	Insulation Resistance	1,000MΩ or more																				



1	Minimum Operation Temp.	30 min.
2	Room Temp.	5 min.
3	Maximum Operation Temp.	30 min.
4	Room Temp.	5 min.