CEM-3
E-668T Type(K)

Copper Clad laminate for tracking-Resistant composites

■Features
●Good tracking resistance(CTI600)

■Applications
●Power supply units.
●Displays.
●Air conditioners.
●Washing machines

■Standard Specifications

Part Number	Type	Master Size(Length×Width)(mm)	Copper Foil Thickness	Actual Thickness(mm)
E-668T (Double-side)	(K)	1030^{+5}_{-0} ×1030^{+5}_{-0} 1230^{+5}_{-0} ×1030^{+5}_{-0}	18μm 35μm 70μm	0.8
				1.0
				1.2
				1.6
E-568T (One-side)	(K)		35μm 70μm	0.8
				1.0
				1.2
				1.6

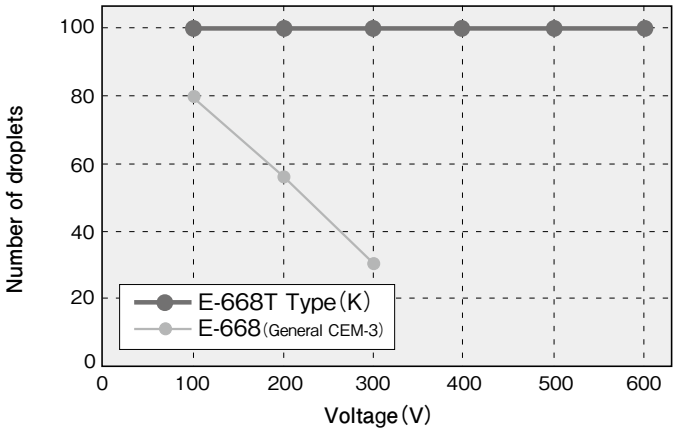
※Please consult in advance for production support.

■Characteristics

Item		Condition	Unit	Actual Value E-668T/E-568T	Test Method (IPC-TM-650)
Tg		TMA	℃	130～140	2.4.24
CTE	X	(30～120℃)	ppm/℃	18～22	2.4.24
	Y			19～23	
	Z	(<Tg)		40～50	
Solder Heat Resistance(260℃)		A	sec.	>120	—
Copper Peel Strength	18μm	A	kN/m	1.2～1.6	2.4.8
	35μm			1.8～2.2	
Surface Roughness(Ra)		A	μm	—	—
Flexural Modulus(Lengthwise)		A	GPa	—	2.4.4
Dielectric Constant	1MHz	C-96/20/65	—	4.4～4.8	2.5.5.1
	1GHz			—	—
Dissipation Factor	1MHz	C-96/20/65	—	0.024～0.030	2.5.5.1
	1GHz			—	—
Volume Resistivity		C-96/20/65	Ω·cm	5×10^{15}～5×10^{16}	2.5.17
Surface Resistance		C-96/20/65	Ω	5×10^{14}～5×10^{15}	
Insulation Resistance		C-96/20/65	Ω	1×10^{14}～5×10^{15}	—
		C-96/20/65+D-2/100		1×10^{13}～1×10^{14}	
Water Absorption		E-24/50+D24/23	%	0.04～0.08(1.6mm)	2.6.2.1
Flammability(UL-94)		A	—	V−0	2.3.10

The contents of this report are based on the results of experiments conducted by HITACHI CHEMICAL and do not represent a guarantee of the values for each property. Before using this product, please study its properties, methods for using it, etc., using this data as a reference.

●Tracking resistance



Method	IEC-60112
Electrolyte	NH_4Cl (0.1%)
Voltage	100～600V
Detection	0.5A/2sec.