

銅面積層板特性表

Comprehensive Properties Data (CEM-1)

檢驗項目 (JIS C 6489) Test Items		單位 Unit	處理條件 Treatment Condition	CCP-508		CCP-508 (W)	
				實績值 Tested Value	保證值 Guaranteed Value	實績值 Tested Value	保證值 Guaranteed Value
焊錫耐熱性 Solder Float	S-260°C	Sec	A	120 ↑	≥ 20	120 ↑	≥ 20
	S-288°C			20~40	≥ 10	40~60	≥ 10
抗撕強度 Peel Strength	1 OZ (35 μm)		A	2.0 ~ 2.4	≥ 1.5	2.0 ~ 2.4	≥ 1.5
			S-260°C/20sec	2.0 ~ 2.4	≥ 1.5	2.0 ~ 2.4	≥ 1.5
	A		2.8 ~ 3.3	≥ 1.8	2.8 ~ 3.3	≥ 1.8	
	S-260°C/20sec		2.8 ~ 3.3	≥ 1.8	2.8 ~ 3.3	≥ 1.8	
耐燃性 Flammability (UL94)		---		V-0	V-0	V-0	V-0
絕緣阻抗 Insulation Resistance		Ω	C-96/20/65	$5 \times 10^{13} \sim 5 \times 10^{14}$	$\geq 5.0 \times 10^{12}$	$5 \times 10^{13} \sim 5 \times 10^{14}$	$\geq 5.0 \times 10^{12}$
			+D-2/100	$5 \times 10^{12} \sim 5 \times 10^{13}$	$\geq 5.0 \times 10^{10}$	$5 \times 10^{12} \sim 5 \times 10^{13}$	$\geq 5.0 \times 10^{10}$
曲折強度 Flexural Strength	橫向 C.W.	Kgf/mm ²	A	30~34	≥ 25(245)	30~34	≥ 25(245)
	縱向 L.W.			38~42	≥ 30(294)	38~42	≥ 30(294)
耐漏電絕緣性 CTI (IEC-112)		Volt		> 300	≥ 300	> 300	≥ 300
體積阻抗率 Volume Resistivity		Ω-cm	C-96/20/65	$1 \times 10^{14} \sim 1 \times 10^{15}$	$\geq 1.0 \times 10^{13}$	$1 \times 10^{14} \sim 1 \times 10^{15}$	$\geq 1.0 \times 10^{13}$
			+C-96/40/90	$1 \times 10^{13} \sim 1 \times 10^{14}$	$\geq 1.0 \times 10^{12}$	$1 \times 10^{13} \sim 1 \times 10^{14}$	$\geq 1.0 \times 10^{12}$
表面阻抗 Surface Resistance	蝕刻面 Etched Side	Ω	C-96/20/65	$1 \times 10^{13} \sim 1 \times 10^{14}$	$\geq 1.0 \times 10^{12}$	$1 \times 10^{13} \sim 1 \times 10^{14}$	$\geq 1.0 \times 10^{12}$
			+C-96/40/90	$1 \times 10^{12} \sim 1 \times 10^{13}$	$\geq 1.0 \times 10^{11}$	$1 \times 10^{12} \sim 1 \times 10^{13}$	$\geq 1.0 \times 10^{11}$
	基板面 Unclad Side		C-96/20/65	$1 \times 10^{13} \sim 1 \times 10^{14}$	$\geq 1.0 \times 10^{12}$	$1 \times 10^{13} \sim 1 \times 10^{14}$	$\geq 1.0 \times 10^{12}$
			+C-96/40/90	$1 \times 10^{12} \sim 1 \times 10^{13}$	$\geq 1.0 \times 10^{11}$	$1 \times 10^{12} \sim 1 \times 10^{13}$	$\geq 1.0 \times 10^{11}$
介質常數 (1 MHZ) Dielectric Constant		---	C-96/20/65	4.3~4.8	≤ 5.5	4.3~4.8	≤ 5.5
			+D-24/23	4.5~5.0	≤ 5.8	4.5~5.0	≤ 5.8
散失因子 (1 MHZ) Dissipation Factor		---	C-96/20/65	0.029~0.033	≤ 0.035	0.029~0.033	≤ 0.035
			+D-24/23	0.034~0.038	≤ 0.045	0.034~0.038	≤ 0.045
吸水率 Water Absorption		%	E-24/50+D-24/23	0.12~0.18	≤ 0.30	0.12~0.18	≤ 0.30
耐熱性 Heat Resistance		---	E-1hr/140°C	No Blistering	No Blistering	No Blistering	No Blistering
			E-30min/190°C	No Blistering	No Blistering	No Blistering	No Blistering
耐藥品性 Chemical Resistance		---	NaOH(3%)/40°C/3min	Pass Visual	Pass Visual	Pass Visual	Pass Visual
			Trichloroethylene/3min				

※ Data are based on material thickness 1.6mm

Treatment Condition :

A: Acceptance condition

C: Treatment in constant temperature and humidity

D: Immersion in constant temperature water

E: Treatment in constant temperature air

