

DS-7106A (G)

(ANSI : CEM-1) GREEN LAMINATE, HIGH C.T.I

Features

- Halogen-free, Antimony-free, no toxic evolution during waste burning
- High C.T.I. value (above 600V)
- Excellent punchability
- Low warpage at high temperature

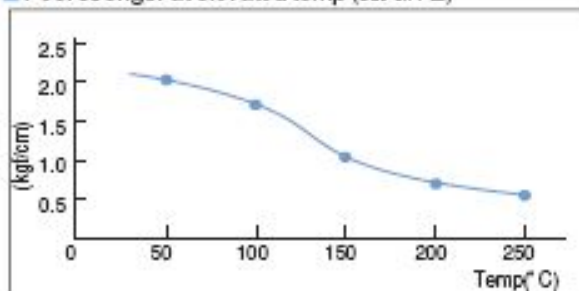
Applications

Automotive radio, Television, Smoke alarm, Power supply, Keyboard, Clock, etc.

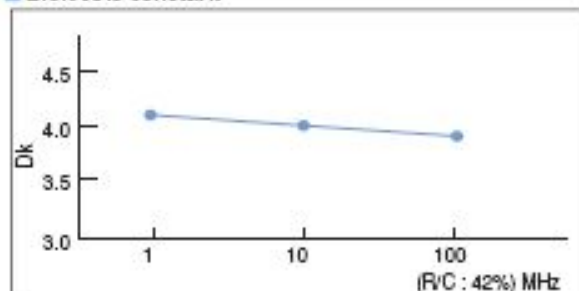
International Standard Recognition

- UL : E103670
- BSI : 6741
- VDE : VDE - Reg - Nr. 4945

■ Peel strength at elevated temp (Cu Foil 1 oz)

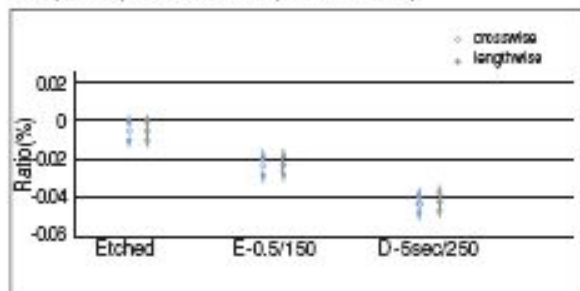


■ Dielectric constant



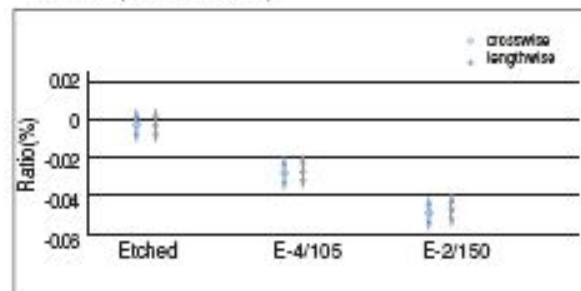
■ Dimensional stability

PCB process (size 360x310mm upon 310x254mm)

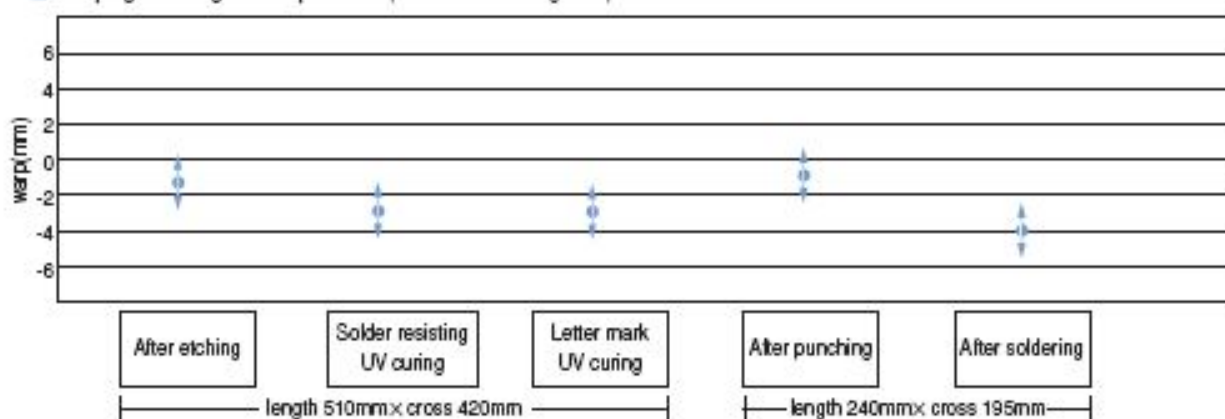


■ Dimensional stability

Test method (PC-TM-650 2.4.39)



■ Warpage through PCB process (thickness 1.6mm Single side)



COPPER CLAD LAMINATES

General Properties

Test Item	Unit	Treatment Condition	Designation	DS-7106A (G)
			ANSI Grade	CEM-1
			Property Data	
			Standard Value	Guaranteed Value
Flammability	-	UL-94	V-0	V-0
Insulation Resistance	ohm	C-96/20/65 C-96/20/65+D-2/100	$1 \times 10^9 - 1 \times 10^{14}$ $1 \times 10^9 - 1 \times 10^{11}$	above 1×10^{11} above 1×10^9
Volume Resistivity	ohm-cm	C-96/20/65 C-96/20/65+C-96/40/90	$1 \times 10^{14} - 1 \times 10^8$ $1 \times 10^9 - 1 \times 10^{14}$	above 5×10^{12} above 5×10^{11}
Surface Resistance	ohm	C-96/20/65 C-96/20/65+C-96/40/90	$1 \times 10^9 - 1 \times 10^{14}$ $1 \times 10^9 - 1 \times 10^9$	above 1×10^{12} above 1×10^{11}
Arc Resistance	min. sec		100	above 60
Dielectric Constant (1 MHz)	-	C-96/20/65 C-96/20/65+D-48/50	4.0 - 4.5 4.2 - 4.8	less than 4.8 less than 5.2
Dissipation Factor (1 MHz)	-	C-96/20/65 C-96/20/65+D-48/50	0.015 - 0.020 0.018 - 0.023	less than 0.035 less than 0.045
Comparative Tracking Index	volt	IEC Method	600	600
Solder Float (260°C)	sec	A	above 40	above 20
Peel Strength Cu.foil 1 oz (0.035mm)	kgf/cm	A	1.5 - 1.8	above 1.43
Flexural Strength	kgf/mm ²	A	30 - 35	above 20.4
Water Absorption	%	E-24/50+D-24/23	0.23 - 0.28	less than 0.50
Punching Temperature	°C	A	Ambient	Ambient

Specimen Thickness : 1.6mm

Purchasing Information

- Copper foil : 0.5 oz/ft²(0.018 mm), 1 oz/ft²(0.035 mm), 2 oz/ft²(0.070 mm) available
- Thickness : 0.8mm to 1.6mm

Standard Size		Tolerance(mm)
1,020 X 1,220mm (40" X 48")	915 X 1,220mm (36" X 48")	+3
1,070 X 1,220mm (42" X 48")	970 X 1,220mm (38" X 48")	-0
1,020 X 1,020mm (40" X 40")		

※ Other sheet size and thickness could be available upon request.