



SAR20

Al Base CCL

特点

- 无卤高CTI产品
- 优良的散热性
- 优良的剥离强度
- 优秀的耐热性和绝缘可靠性
- 优秀的加工性

FEATURES

- Halogen-free and High CTI
- Superior Heat Dissipation
- High Peel Strength
- Excellent Thermal Reliability and Insulation Reliability
- Excellent Processability

应用领域

适用于大功率LED照明、电源电路、LED TV等。

APPLICATIONS

Suitable for high-power LED lighting, power supply board, LED TV, and etc.

GENERAL PROPERTIES

Test Item		Treatment Condition	Unit	Property Data (Typical Value)
Thermal Stress		288°C, solder dip	min	10
		288°C, solder float	min	30
Peel Strength (1OZ Cu.)		288°C/10 sec	N/mm	1.4
Dielectric Breakdown Voltage, AC		D-48/50+D-0.5/23	kV	6.0
Hi-pot Test		DC	V	4000
		AC	V	3000
Thermal Conductivity	dielectric layer	ASTM D5470	W/(m·K)	2.0
Thermal Resistance			K·cm ² /W	0.55
Surface Resistivity		After moisture resistance	MΩ	10 ⁸
		E-24/125	MΩ	10 ⁶
Volume Resistivity		After moisture resistance	MΩ-cm	10 ⁸
		E-24/125	MΩ-cm	10 ⁷
Dielectric Constant		C-24/23/50,1MHz	-	5.3
		C-24/23/50,1GHz	-	4.9
Dissipation Factor		C-24/23/50,1MHz	-	0.022
		C-24/23/50,1GHz	-	0.018
CTI		IEC60112 Method	V	600
Flammability		UL-94	-	V-0
Glass Transition Temperature (Tg)		DSC	°C	140
CTE (Z-axis)	Before Tg	TMA	ppm/°C	27
Decomposition Temperature (Td)		TGA (5% Weight Loss)	°C	395
Halogen Content		Cl, Br	ppm	≤900.00
		Cl +Br	ppm	≤1500.00
MOT		UL	°C	130

* Typical Value is based on specimen of 1.5mm Al / 100 μm dielectric/1 OZ Cu

Explanations: C = 湿热处理条件 Humidity conditioning.

E = 恒温处理条件 Temperature conditioning.

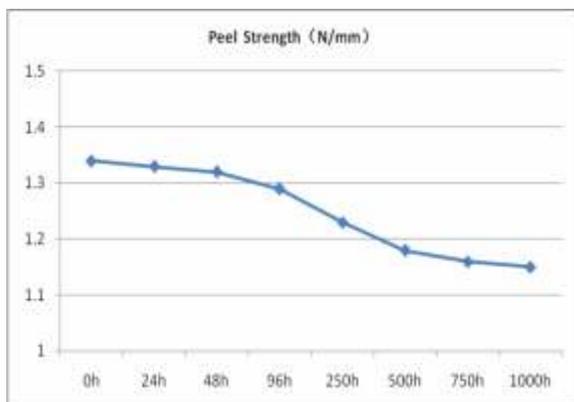
D = 浸泡于蒸馏水 Immersion conditioning in distilled water.



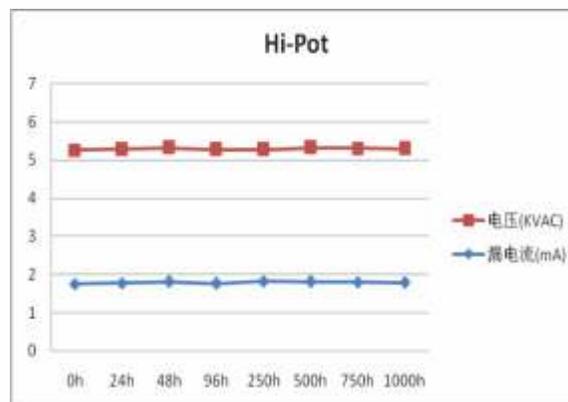
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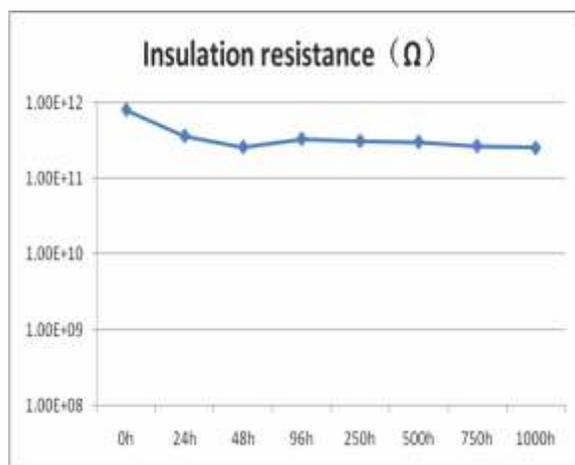
Peel Strength Reliability



Hi-pot Reliability



Insulation Resistance Reliability



Thermal Conductivity Testing Instrument (Test Method ASTM D5470)



PURCHASING INFORMATION

	Material	Type
Cu	E/D Cu	HOZ, 1OZ, 2OZ
Dielectric Layer	Epoxy resin filled with inorganic filler	75-120 μ m
Base Metal Plate	1100 Al	0.3-3.0mm
	3003 Al	
	5052 Al	
Masking Film	PET/PI Film	2.5 mil
Standard Size	914mmX1219mm, 1016mmX1219mm, 1020mmX1200mm, 500mmX600mm (Other sizes are available upon request)	