



# SAR20

SAR20 AI 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 circuit, LED TV, and etc.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data (Typical Value)
Thermal Stress	288°C, solder dipping	min	5
	288°C, solder floating	min	30
Peel Strength (1OZ Cu.)	After thermal shock 10 sec/288°C	N/mm	1.9
Dielectric Breakdown Voltage, AC	D-48/50+D-0.5/23	kV	6.0
Hi-pot Test	DC	V	4000
	AC	V	2000
Thermal Conductivity	ASTM D5470	W/(m·K)	2.1
Thermal Impedance		K·cm <sup>2</sup> /W	0.55
Surface Resistance	After moisture resistance	MΩ	10 <sup>8</sup>
	E-24/125	MΩ	10 <sup>6</sup>
Volume Resistance	After moisture resistance	MΩ-cm	10 <sup>8</sup>
	E-24/125	MΩ-cm	10 <sup>7</sup>
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	class	V-0
Glass Transition Temperature (Tg)	DSC	°C	140
CTE (Z-axis)	Before Tg	TMA	ppm/°C
Decomposition Temperature (Td)	TGA (5% Weight Loss)	°C	380
Halogen Content	Cl, Br	ppm	≤900.00
	Cl +Br	ppm	≤1500.00

\* 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.

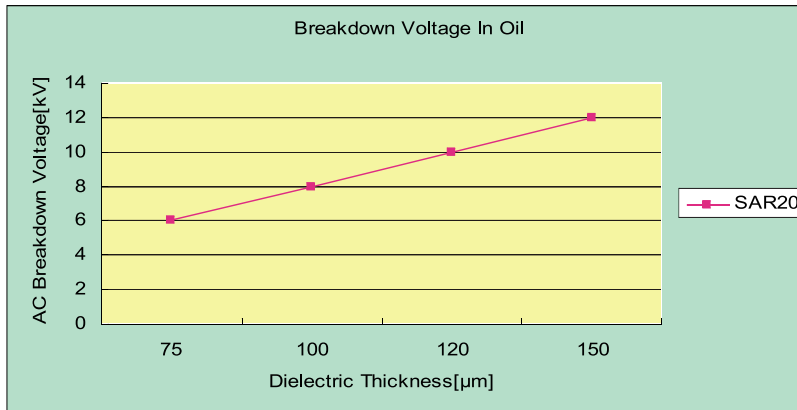
D = 浸泡于蒸馏水 Immersion conditioning in distilled water.



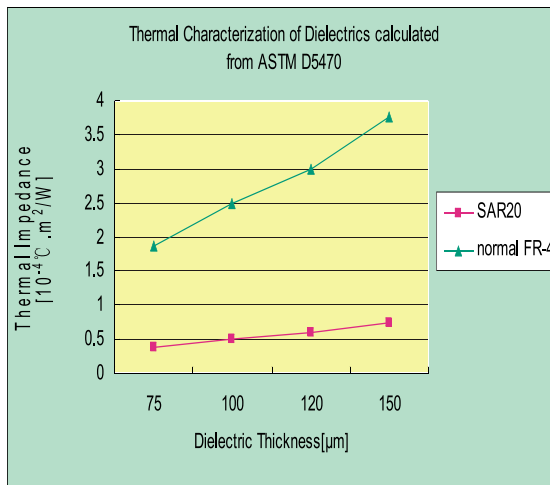
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## EXCELLENT BREAKDOWN VOLTAGE



## EXCELLENT THERMAL CONDUCTIVITY



## Thermal Conductivity Testing Instrument (Test Method ASTM D5470)



## PURCHASING INFORMATION

	Material	Type
<b>Cu</b>	E/D Cu	0.5, 1, 2 OZ
<b>Dielectric Layer</b>	Epoxy resin filled with inorganic filler	70-150 μ m
<b>Base Metal Plate</b>	1060 Al	0.3-3.0mm
	5052 Al	
	6061 Al	
<b>Masking Film</b>	PET/PI Film	2.5 mil
<b>Standard Size</b>	1020mmX1220mm (Other sizes are available upon request)	