

VT-4B7

UL Approval: E214381 Version: Preliminary 2

技术资料表

铝基板 / 背胶薄膜

概述

腾辉提供1种型号的无玻璃布增强的绝缘散热材料，具体如下：

- VT-4B7 Laminate / VT-4B7 RCF: Thermal conductivity -- 7.0W/mK
- 陶瓷填充
- 无卤
- 阻燃 (UL94 V0)
- UL MOT 130°C

应用

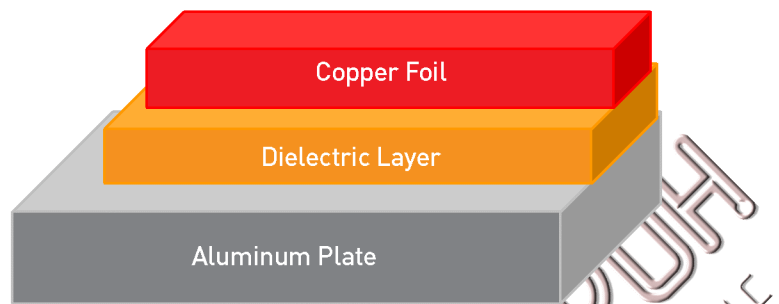
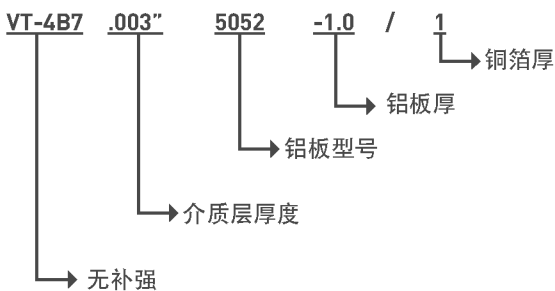
- 电源转换器
- 液晶面板、背光源、稳压器
- 监视器驱动器
- 整流器、电源

存储条件&保存期限

		RCF		Laminate
Storage Condition	Temperature	Below 23°C (73°F)	Below 5°C (41°F)	Room
	Relative Humidity	Below 55% RH	/	/
Shelf Life		3 Months	4 Months	24 Months (airproof)

过期的背胶薄膜在使用前需要复测以确认特性。

料号编码



VT-4B7

PROPERTIES

基板特性

Item	Test Method (IPC TM-650)	Unit	VT-4B7		
			50um	75um	100um
Thermal Conductivity	ISO 22007-2	W/m*K	7.0		
Thermal Impedance	ISO 22007-2	°C *in ² /W	0.011	0.017	0.022
Tg	DSC	°C	100		
Td	TGA	°C	380		
Thermal Stress	288°C solder dip	minute	5		
Hi-pot withstand	DC	Volt	1000	2500	3000
Dielectric Strength	AC	V/mil	750		
Dk (1MHz)	C-24 / 23 / 50	-	4.8		
Df (1MHz)	C-24 / 23 / 50	-	0.016		
Volume Resistance	After Moisture	2.5.17.1	MΩ-cm	5.0×10 ⁹	
	E-24/125			3.0×10 ⁷	
Surface Resistance	After Moisture	2.5.17.1	MΩ	2.0×10 ⁷	
	E-24/125			5.0×10 ⁶	
Peel Strength (1oz Cu)	As received	2.4.8	Lb/in	4.5	
CTI	As received	ASTM D3638	Volt	600	
Flammability	As received	UL 94	-	V0	

所有提供的测试数据均为典型值，非特定规范。

VT-4B7

产品规格

Laminate

Item	VT-4B7
Dielectric	.002(50um) .003"(75um) .004"(100um)
Standard Size	18"*24"(457mm*610mm) 18"*48"(457mm*1220mm)
	20"*24"(508mm*610mm) 20"*48"(508mm*1220mm)
	21"*24"(533mm*610mm) 21"*48"(533mm*1220mm)
	24"*24"(559mm*610mm) 24"*48"(559mm*1220mm)
Copper	1oz 2oz
Aluminum	0.8mm 1.0mm 1.2mm 1.5mm 2.0mm
Aluminum Alloy	1100 5052 or as required

RCF

Item	VT-4B7
Dielectric	.002(50um) .003"(75um)
Flow-in	10~100mil
Standard Size	Width: 25"(635mm) Length: 15.7"(400mm), 19.7"(500mm), 21.0"(533mm), 23.6"(600mm), or as required (Max 49.0"(1245mm))
PET film	75um

Protective Film for Aluminum Plate

Type	Material	Operation Temperature
Standard Type	PET	170 °C
High Temperature Type	Polyimide	270 °C