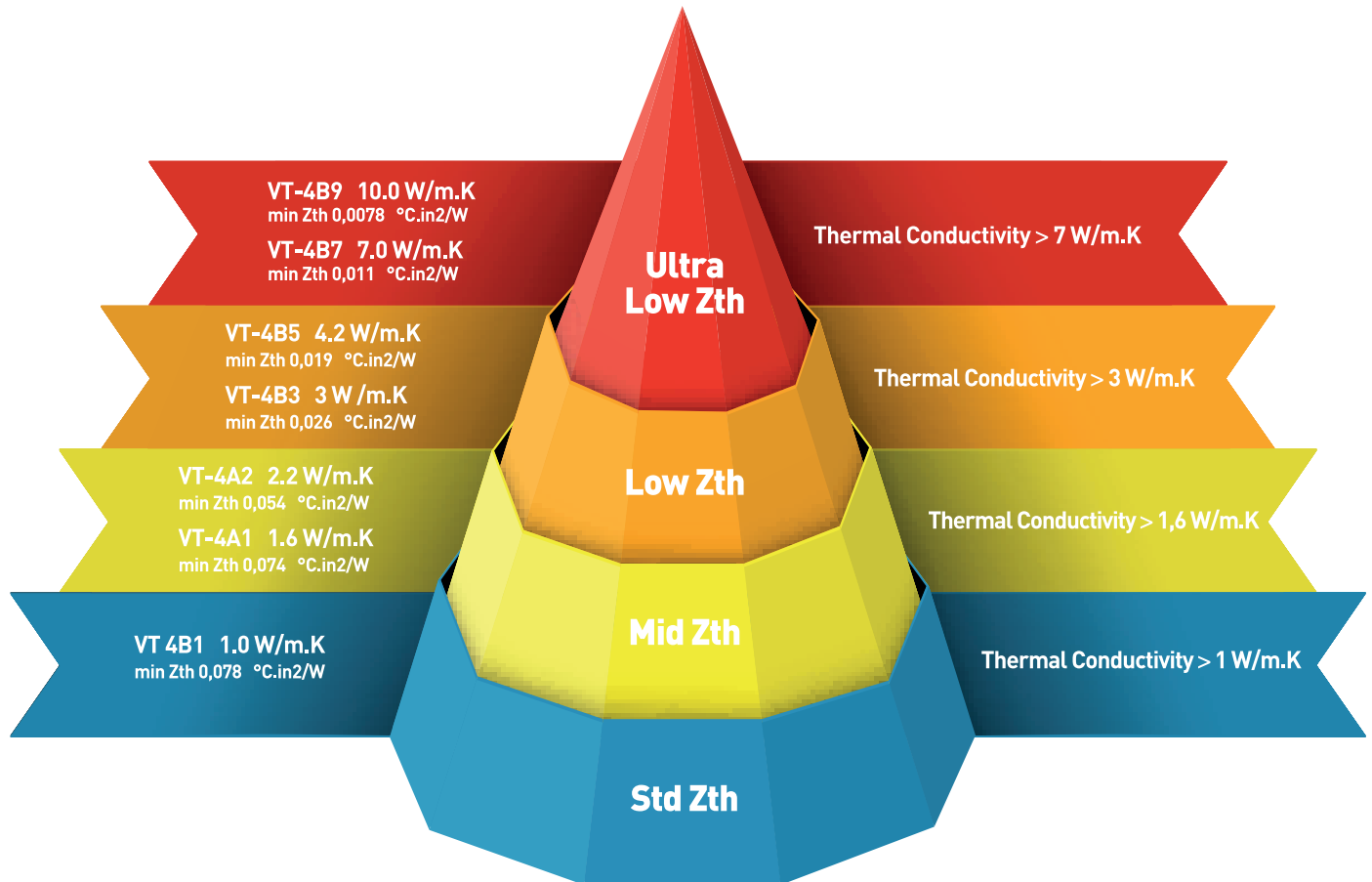


**VT-4B3**

UL Approval: E214381 Version: B8

**Aluminum Base Laminate/RCF (Resin Coated Film)**



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# VT-4B3

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## Aluminum Base Laminate/RCF (Resin Coated Film)

### General Information

- > Thermal conductivity -- 3.0W/mK
- > Ceramic Filled
- > Halogen Free
- > Flammability UL94 V0
- > MOT 130°C

### Application

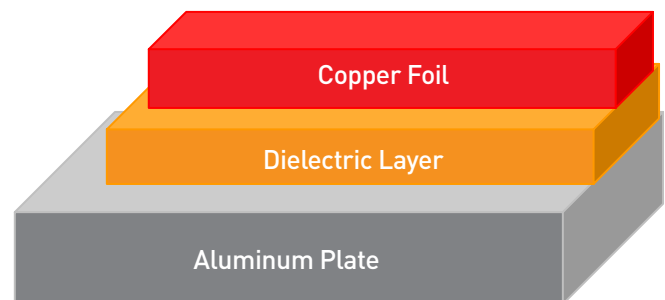
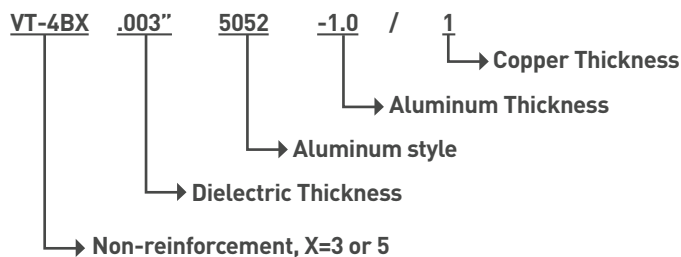
- > Ultra bright LED Substrate
- > Power Conversion
- > PDP, LED, Regulator for TV
- > Monitor Drives
- > Rectifier, Power Supply

### Storage Condition & Shelf Life

		Prepreg		Laminate
Storage Condition	Temperature	< 23°C [73°F]	< 5°C [41°F]	Room
	Relative humidity	< 55%	/	/
Shelf Life		2 months	4 months	24 months

The RCC exceeding shelf life should be retested.

### Designation of IMS Laminate



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## Aluminum Base Laminate/RCF (Resin Coated Film)

### Laminate Properties

Item		Test Method (IPC-TM-650)	Unit	VT-4B3						
				50um	75um	100um	125um	150um	180um	230um
Thermal Conductivity		ISO22007-2	W/m*K	3.0						
Thermal Impedance		ISO22007-2	°C*in <sup>2</sup> /W	0.027	0.040	0.053	0.067	0.080	0.095	0.130
Tg	DSC	2.4.25	°C	130						
Td	TGA	ASTM D3850	°C	380						
Thermal Stress		Solder Dip @ 288°C	Minute	≥5						
Hi-Pot Withstand	DC	2.5.7.2	V	2000	3000	4000	5000	6000	8000	10000
Breakdown Voltage	AC	2.5.6.3	V	4000	7000	8000	9000	10000	11000	13000
Dk @ 1MHz	C-24 /23 / 50	2.5.5.3	—	4.8						
Df @ 1MHz	C-24/ 23 / 50	2.5.5.3	—	0.016						
Volume Resistance	After Moisture	2.5.17.1	MΩ-cm	5.0E+8						
	E-24/125			3.0E+7						
Surface Resistance	After Moisture	2.5.17.1	MΩ	2.0E+7						
	E-24/125			5.0E+6						
Peel strength (1oz)	As Received	2.4.8	Lb/in	11						
CTI	As Received	ASTM D3638	V	600						
Flammability	As Received	UL 94	Rating	V0						
RTI	Electric	UL 94	°C	130						
	Mechanical	UL 94	°C	130						

All test data provided are typical values and not intended to be specification values.

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## Aluminum Base Laminate/RCF (Resin Coated Film)

### Availability

### Laminate

Item		Availability
Dielectric		.002" (50um), .004" (100um), .005" (125um), .006" (150um), .007" (180um), .009" (230um)
Standard Size	Imperial	18*24, 20*24, 21*24, 18*48, 20*48, 21*48
	Metric	457*610, 508*610, 533*610, 457*1220, 508*1220, 533*1220
Copper Weight		1/3oz, Hoz, 1oz, 2oz, 3oz, 4oz, 6oz
Aluminum Thickness		0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm, 3.0mm
Aluminum Alloy		1100, 5052, or as required

### RCF

Item	Availability
Dielectric	.003" (75um), .004" (100um)
Flow-in	70~250mil
Standard Size	Width: 18.7" (476mm), 20.6" (524mm), 21.6" (549mm) Length: Max 49.06" (1246mm)
PET Film	75um

### Protective Film for Aluminium Plate

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

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