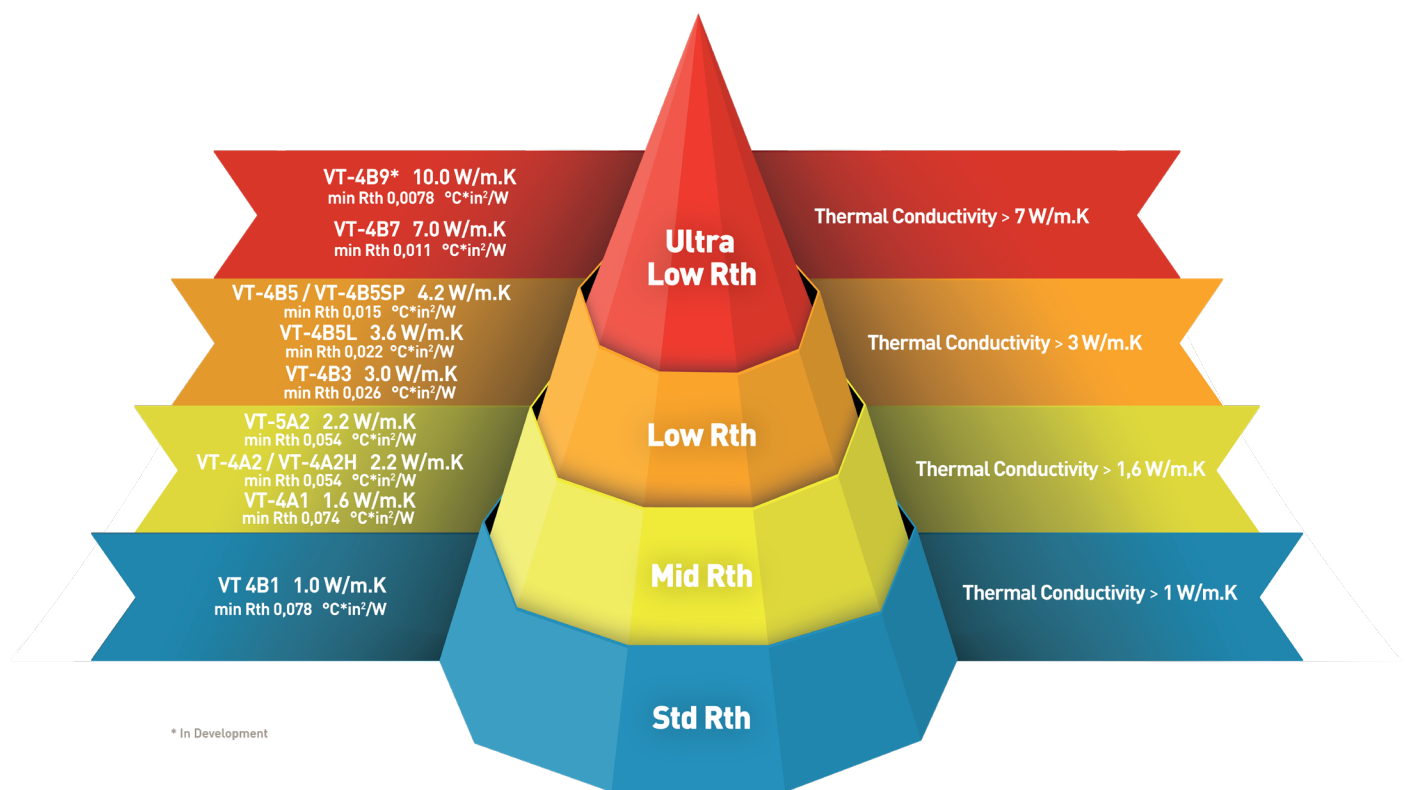




# VT-4B3

UL Approval: E214381 Version: B8

## Aluminum Base Laminate



### CORPORATE HEADQUARTERS

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## Aluminum Base Laminate

### General Information

- > Thermal conductivity -- 3.0 W/mK
- > Ceramic Filled
- > Halogen Free
- > Flammability UL94 V-0
- > MOT 130°C

### Application

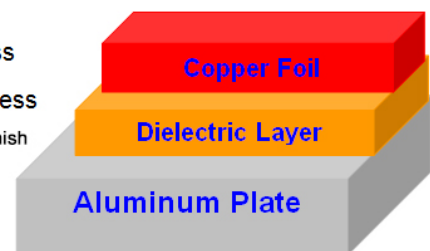
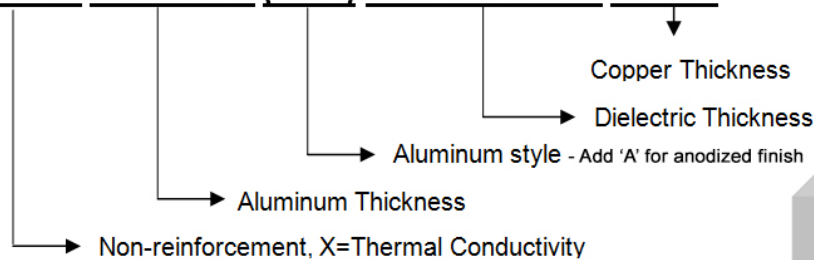
- > Ultra bright LED Substrate
- > Power Conversion
- > PDP, LED, Regulator for TV
- > Monitor Drives
- > Rectifier, Power Supply

### Storage Condition & Shelf Life

		Laminate
Storage Condition	Temperature	Room
	Relative humidity	/
Shelf Life		24 months

### Designation of IMS Laminate

**VT-4BX 1.0mm Alu (5052) .003" Dielectric 1oz Cu**



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## Aluminum Base Laminate

### Laminate Properties

Item		Test Method (IPC-TM-650)	Unit	VT-4B3						
				50μm	75μm	100μm	125μm	150μm	180μm	230μm
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	V-0						
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

### Availability

### Laminate

Item		Availability
Dielectric		.002" (50µm), .004" (100µm), .005" (125µm), .006" (150µm), .007" (180µm), .009" (230µm)
Standard Size	Imperial	18.11*24.02, 20.08*24.02, 20.98*24.02, 18.11*48.03, 20.08*48.03, 20.98*48.03
	Metric	460*610, 510*610, 533*610, 460*1220, 510*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

### Protective Film for Aluminium Plate

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

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