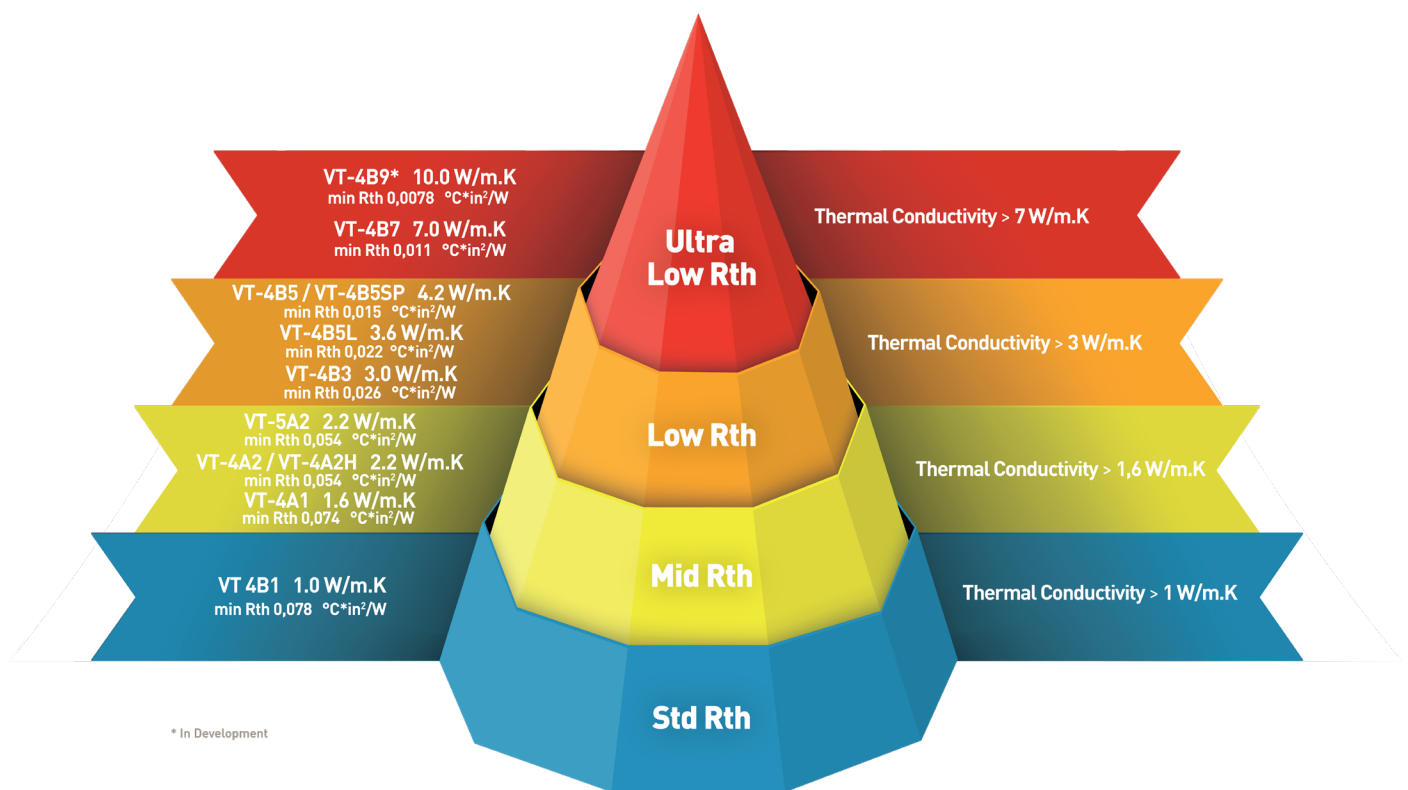


# VT-4B7

UL Approval: E214381 Version: B4

## Aluminum Base Laminate



### CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.  
308 TaiShan Rd,  
New District Suzhou,  
Jiangsu, P.R. China 215129  
T: +86 512-68091810  
Email: sales@ventec.com.cn

### EMEA REGIONAL HEADQUARTERS

Ventec Europe  
Unit 1 Trojan Business Centre,  
Tachbrook Park Estate,  
Leamington-Spa, CV34 6RH, UK  
T: +44 1926-889822  
Email: sales@ventec-europe.com

### AMERICAS REGIONAL HEADQUARTERS

Ventec USA  
700 Lee St., Elk Grove Village,  
Illinois, IL 60007,  
United States of America  
T: +1 630-4221627  
Email: saleseast@ventec-usa.com

www.ventecclaminates.com

# VT-4B7

UL Approval: E214381 Version: B8

## Aluminum Base Laminate

### General Information

- > Thermal conductivity -- 7.0 W/mK
- > Ceramic Filled
- > Halogen Free
- > Flammability UL94 V-0
- > MOT 130°C

### Application

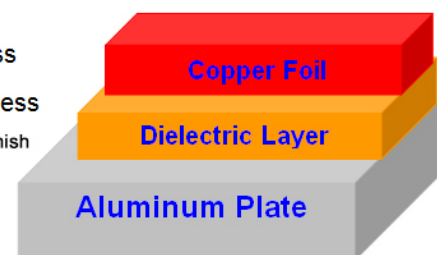
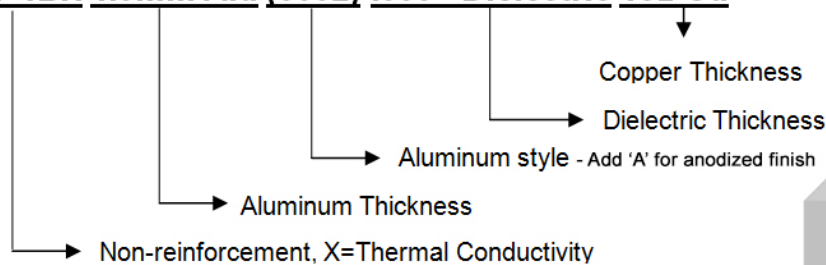
- > Super Bright Lighting
- > Power Conversion
- > PDP, LED, Regulator for TV
- > Monitor Drives
- > Rectifier, Power Supply

### 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**



#### CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.  
308 TaiShan Rd,  
New District Suzhou,  
Jiangsu, P.R. China 215129  
T: +86 512-68091810  
Email: sales@ventec.com.cn

#### EMEA REGIONAL HEADQUARTERS

Ventec Europe  
Unit 1 Trojan Business Centre,  
Tachbrook Park Estate,  
Leamington-Spa, CV34 6RH, UK  
T: +44 1926-889822  
Email: sales@ventec-europe.com

#### AMERICAS REGIONAL HEADQUARTERS

Ventec USA  
700 Lee St., Elk Grove Village,  
Illinois, IL 60007,  
United States of America  
T: +1 630-4221627  
Email: saleseast@ventec-usa.com

www.ventec laminates.com

# VT-4B7

UL Approval: E214381 Version: B8

## Aluminum Base Laminate

### Laminate Properties

Item		Test Method (IPC-TM-650)	Unit	VT-4B7		
				50µm	75µm	100µm
Thermal Conductivity		ISO22007-2	W/m*K	7.0		
Thermal Impedance		ISO22007-2	°C*in <sup>2</sup> /W	0.011	0.017	0.022
Tg	DSC	2.4.25	°C	100		
Td	TGA	ASTM D3850	°C	380		
Thermal Stress		Solder Dip @ 288°C	2.4.13.1	Minute	≥5	
Hi-Pot Withstand	DC	2.5.7.2	V	2000	3000	4000
Breakdown Voltage	AC	2.5.6.3	V	4000	7000	8000
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	4.5		
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.

#### CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.  
 308 TaiShan Rd,  
 New District Suzhou,  
 Jiangsu, P.R. China 215129  
 T: +86 512-68091810  
 Email: sales@ventec.com.cn

#### EMEA REGIONAL HEADQUARTERS

Ventec Europe  
 Unit 1 Trojan Business Centre,  
 Tachbrook Park Estate,  
 Leamington-Spa, CV34 6RH, UK  
 T: +44 1926-889822  
 Email: sales@ventec-europe.com

#### AMERICAS REGIONAL HEADQUARTERS

Ventec USA  
 700 Lee St., Elk Grove Village,  
 Illinois, IL 60007,  
 United States of America  
 T: +1 630-4221627  
 Email: saleseast@ventec-usa.com

www.ventec laminates.com

# VT-4B7

UL Approval: E214381    Version: B8

## Aluminum Base Laminate

### Availability

### Laminate

Item		Availability
Dielectric		.002" (50 μm)*, .003" (75μm), .004" (100μm)
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		Hoz, 1oz, 2oz
Aluminum Thickness		0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm
Aluminum Alloy		1100, 5052, or as required

\* Minimum order quantities & special terms apply for supply of VT-4B7 0.002 (50um). Please contact your local sales representative for information.

### Protective Film for Aluminium Plate

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

#### CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.  
308 TaiShan Rd,  
New District Suzhou,  
Jiangsu, P.R. China 215129  
T: +86 512-68091810  
Email: sales@ventec.com.cn

#### EMEA REGIONAL HEADQUARTERS

Ventec Europe  
Unit 1 Trojan Business Centre,  
Tachbrook Park Estate,  
Leamington-Spa, CV34 6RH, UK  
T: +44 1926-889822  
Email: sales@ventec-europe.com

#### AMERICAS REGIONAL HEADQUARTERS

Ventec USA  
700 Lee St., Elk Grove Village,  
Illinois, IL 60007,  
United States of America  
T: +1 630-4221627  
Email: saleseast@ventec-usa.com

www.ventec laminates.com