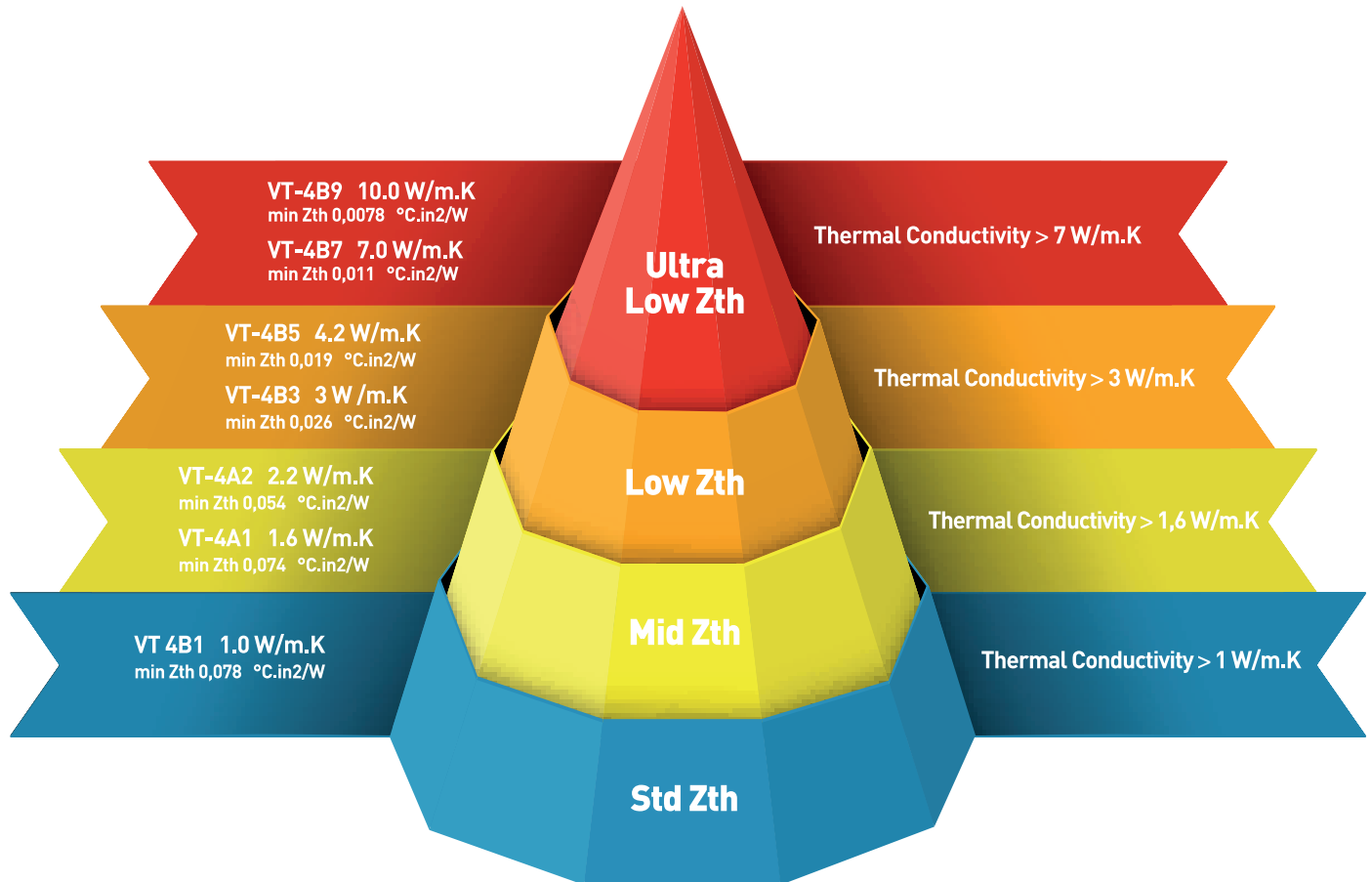




VT-4B7

UL Approval: E214381 Version: B4

Aluminum Base Laminate / RCF (Resin Coated Film)



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VT-4B7

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Aluminum Base Laminate/RCF (Resin Coated Film)

General Information

- > Thermal conductivity -- 7.0W/mK
- > Ceramic Filled
- > Halogen Free
- > Flammability UL94 V0
- > MOT 130°C

Application

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

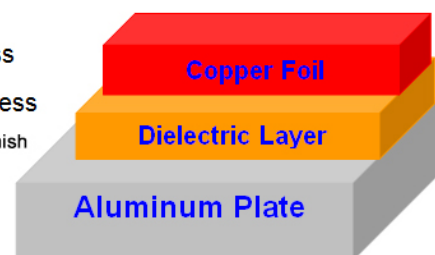
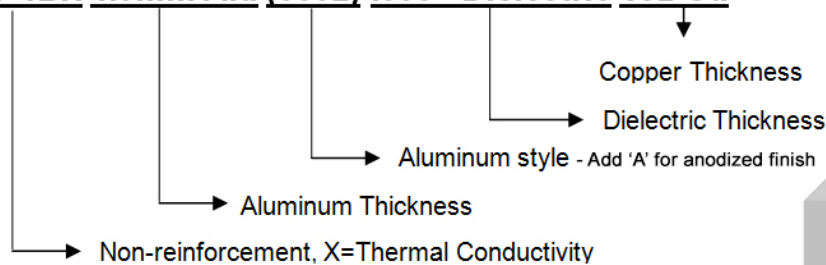
Storage Condition & Shelf Life

		RCF		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

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



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Aluminum Base Laminate/RCF (Resin Coated Film)

Laminate Properties

Item	Test Method (IPC-TM-650)	Unit	VT-4B7			
			50um	75um	100um	
Thermal Conductivity	ISO22007-2	W/m*K	7.0			
Thermal Impedance	ISO22007-2	°C*in ² /W	0.011	0.017	0.022	
Tg	DSC	2.4.25	°C			
Td	TGA	ASTM D3850	°C			
Thermal Stress	Solder Dip @ 288°C	2.4.13.1	Minute			
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	—			
Df @ 1MHz	C-24 / 23 / 50	2.5.5.3	—			
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	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), .003" (75um), .004" (100um)	
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	Hoz, 1oz, 2oz	
Aluminum Thickness	0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm	
Aluminum Alloy	1100, 5052, or as required	

RCF

Item	Availability
Dielectric	.002" (50um), .003" (75um)
Flow-in	10~100mil
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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