ventec-speed

tec-speed 30.0 - VT-6735

Laminate

General Information

> High thermal conductivity (Over 1 W/mK)

> Low loss (Df 0.0015)

> Good and stable peel strength with both shiny side and reverse treated copper foil.

Application

> High Power RF and Microwave Amplifiers

> Power Amplifiers

> Couplers, Filters

> Power Dividers

Availability

Laminate	VT-6735
Standard Thickness	0.010" (0.254mm) 0.020" (0.508mm) 0.030" (0.762mm) 0.060" (1.524mm)
Standard Panel Size	12"*18" (305x457mm) 24"*18" (610x457mm)

Storage Condition

Properties		Laminate
Storage Condition	Temperature	Room
	Relative humidity	/

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UL Approval: E214381 Version: Prelim 1

Laminate

Properties Sheet

Properties	Test Method	Units	VT-6735
Electrical Properties			
Dielectric Constant @10GHz	IPC-TM-650 2.5.5.5 Clamped Stripline	-	3.50 ± 0.05
Design Dk	Differential phase method 8~40GHz	-	3.6
Dissipation Factor @10GHz	IPC-TM-650 2.5.5.5	-	0.0015
Thermal Coefficient of Dk	IPC-TM-650 2.5.5.5 -50~150°C	-	-65
Volume Resistivity	IPC-TM-650 2.5.17.1	MΩ-cm	$8*10^7$
Surface Resistivity	IPC-TM-650 2.5.17.1	MΩ	$9*10^7$
Thermal Properties			
Td	ASTM D3850	°C	520
Thermal Conductivity	ASTM D5470	W/mK	1.15
XY-axis CTE	IPC-TM-650 2.4.24.5	ppm/°C	21/21
Z-axis CTE	IPC-TM-650 2.4.24	ppm/°C	40
Specific Heat	Calculated	J/g/K	0.92
Mechanical Properties			
Peel Strength (1oz) After Thermal Stress	IPC-TM-650 2.4.8	lb/in (N/mm)	8.0 (1.40)
Tensile Modulus	ASTM D638	MPa	280 / 350
Physical Properties			
Density	ASTM D792	gm/m^3	2.2
Moisture Absorption	IPC-TM-650 2.6.2.1	%	0.06
Flammability	UL-94	Rating	V-0
Lead Free Process Compatible	-	-	YES

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

Disclaimer: The information and data contained in this technical literature is based on data and knowledge correct at the time of printing and is believed to be accurate and is offered in good faith for the benefit of the user. The user should make his own tests to verify the suitability of this product for any application before its use. All data are typical values only and subject to change without notice.