ventec-speed



tec-speed 20.0 - VT-870 H348 TCR

UL Approval: E214381 Version: Prelim 1

Laminate with Ticer Thin-Film Resistor Foils

General Information

- > Glass-reinforced hydrocarbon & ceramic laminates
- > Cladded with Ticer TCR® NiCr Thin-Film Resistor Foil
- > Excellent thermal reliability
- > Better signal integrity

Application

- > Global Communication Systems
- > MIMO Antenna, Phased Array Radar, Satellite Communications, Microwave Radar
- > Wireless Communications
- > MEMS Microphones & Sensors & Motors, etc

Availability

Material	VT-870 H348 TCR		
Dielectric thickness (inch)	0.0066", 0.010", 0.0133", 0.0166", 0.020", 0.030", 0.060"		
Panel size* (inch)	12"x18", 24"x18"		
Resistive foil weight	Hoz, 1oz		
Resistivity	25 Ω/sq, 50 Ω/sq, 100 Ω/sq		

* Additional sizes may be available upon request.

Disclaimer:

- > Ventec offers its customers the option of bonding third party resistor foils to selected Ventec substrates as a service. As such, Ventec cannot guarantee the performance of the third party layers and shall not be liable for any loss or damage suffered by the purchaser.
- > The information and data contained in this technical literature is based on data and knowledge correct at the time of publishing/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.

FURTHER INFORMATION

For further information about Ticer Technologies products, design guides and processing recommendations, please visit: www.ticertechnologies.com

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Properties Sheet

Properties	Test Method	Units	Conditions	Typical Value
Tg	IPC-TM-650 2.4.24	°C	2hrs @ 105 °C	>280
Td @ 5% weight loss	ASTM D3850	°C	2hrs @ 105 °C	410
Thermal Stress ଢ 288ºC	IPC-TM-650 2.4.13.1	Second	10sec/cycle	>300
Dk	IPC-TM-650 2.5.5.5	-	10GHz	3.48±0.05
Design Dk	Differential Phase Length Method	-	1.7~5GHz	3.66
Df	IPC-TM-650 2.5.5.5	-	10Ghz	0.0037
Peel Strength (Hoz)	IPC-TM-650 2.4.8	Lb/in	After thermal stress	3
Flammability	UL-94	Rating	-	V-0

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

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