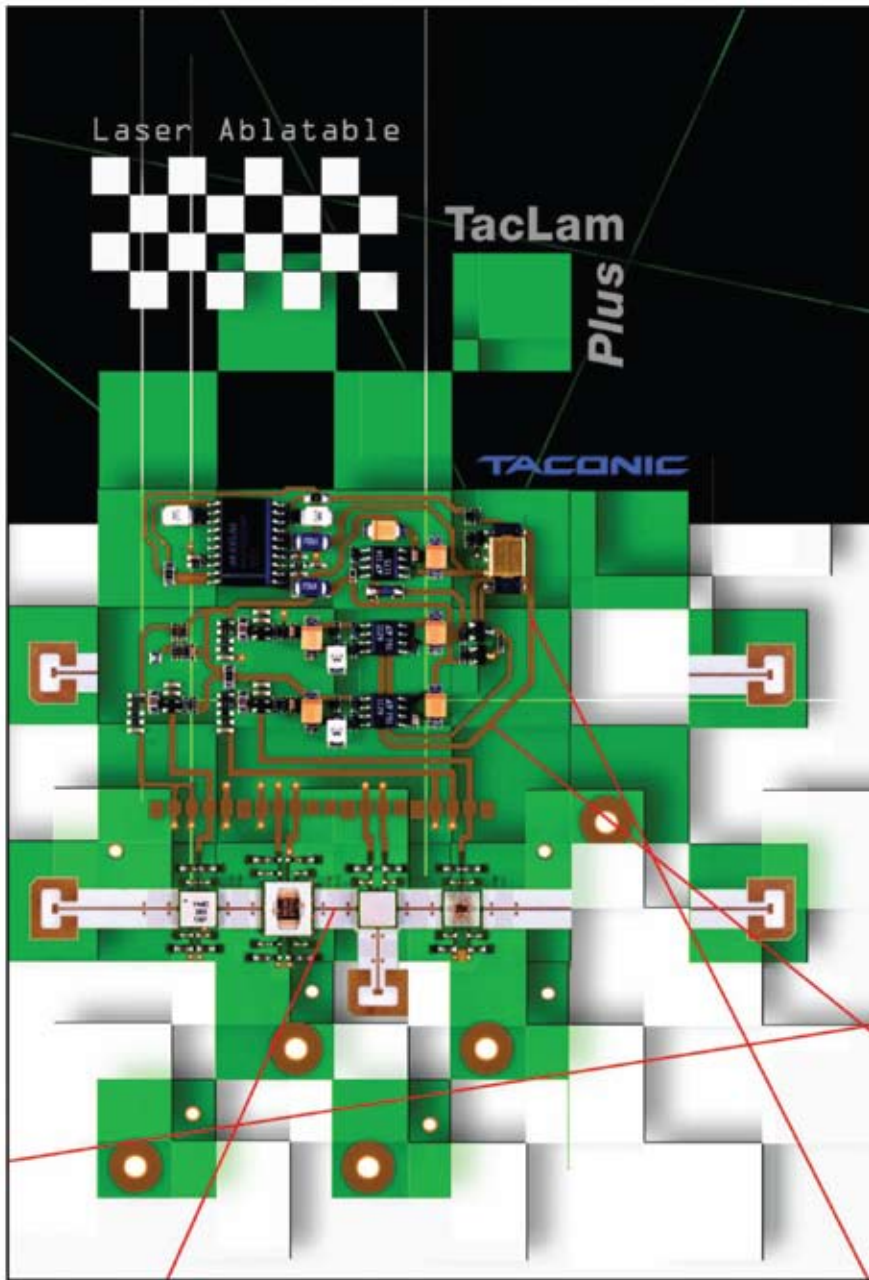


Taclampplus



Laser-ablatable
Sequential Multilayer
Very Low Loss
Low Moisture Absorption
High Peel Strength
Uniform & Consistent DK

TACONIC

An ISO 9001 Registered Company

Petersburgh, NY: Tel: 800-833-1805 Fax: 518-658-3988

Europe: Tel: +353-44-9395600 Fax: +353-44-9344369 Asia: Tel: +82-31-704-1858 Fax: +82-31-704-1857

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APPLICATIONS

*Automotive Radar
mm-wave Radios
Power Amplifiers*

Taclamplus

Taclamplus is a cost-effective, non-reinforced microwave substrate that can be used to create very low-loss structures both with single dielectric layers and multiple layers.

Exceptional copper-foil adhesion allows small-feature resolution and the unique composition of the dielectric facilitates clean laser ablation for micro-via and component-cavity formation.

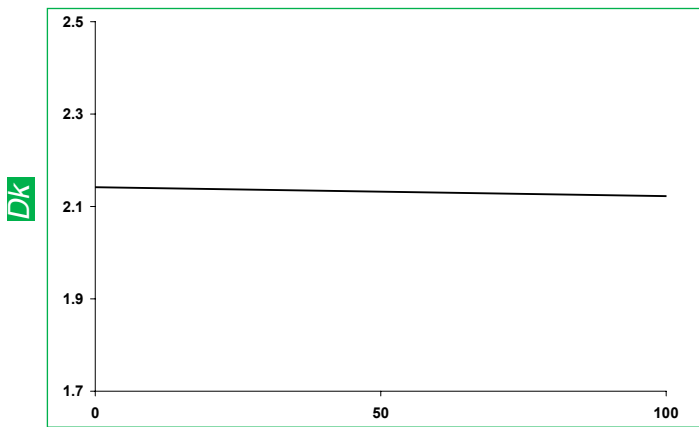
The use of metal-plate such as 1 mm copper helps maintain dimensional stability and provides a sound ground plane and heat-sink.

Taclamplus Typical Values

Property	Test Method	Unit	Value	Unit	Value
Dielectric Constant @ 10 GHz	IPC-TM-650 2.5.5.5.1		2.10		2.10
Dissipation Factor @ 10 GHz	IPC-TM-650 2.5.5.5.1		0.0004		0.0004
Insertion Loss @ 50 GHz*		dB/mm	0.04	dB/mm	0.04
Moisture Absorption	IPC-TM-650 2.6.2.1	%	<0.02	%	<0.02
Peel Strength	IPC-TM-650 2.4.8	lbs/linear inch	12	N/mm	2.1
Flammability Rating	UL 94		V-0		V-0

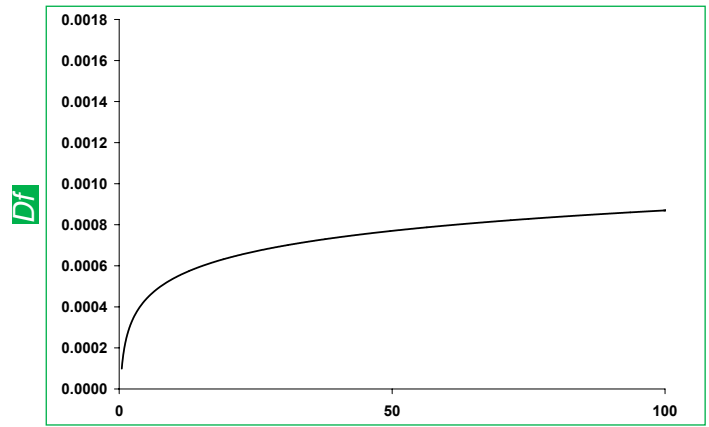
*Source: EADS Project Report 2002, PROKOSMOS

Dk vs. Frequency



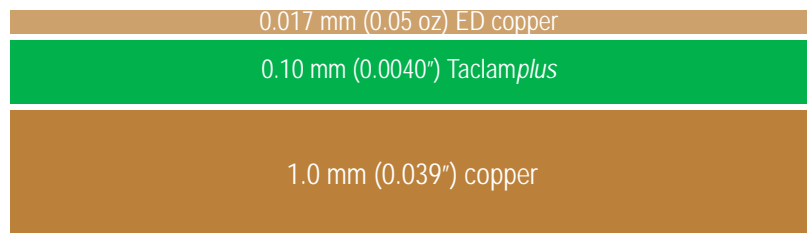
Frequency

Df vs. Frequency



Frequency

Typical Construction*



*Other combinations are available upon request

All reported values are typical and should not be used for specification purposes. In all instances, the user shall determine suitability in any given application.

How To Order

Designation	Dielectric Constant	Typical Thicknesses		Available Sheet Sizes	
Taclamplus	2.10	Available in increments of:		12" x 18"	304 mm x 457 mm
		0.0020"	0.05 mm	16" x 18"	406 mm x 457 mm
				18" x 24"	457 mm x 610 mm

Available Copper Cladding						
Designation	Weight	Copper Thickness		R_{MS} Treated Side		Description
CH	1/2 oz / ft ²	~0.0007"	~18 μ m	27 μ in	0.7 μ m	Electrodeposited
C1	1 oz / ft ²	~0.0014"	~35 μ m	64 μ in	1.6 μ m	Electrodeposited
C2	2 oz / ft ²	~0.0028"	~70 μ m	77 μ in	2.0 μ m	Electrodeposited

An example of our part number is: **Taclamplus-220-0040-CH/C1MM - 18" x 24" (457 mm x 610 mm)**

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Compliant