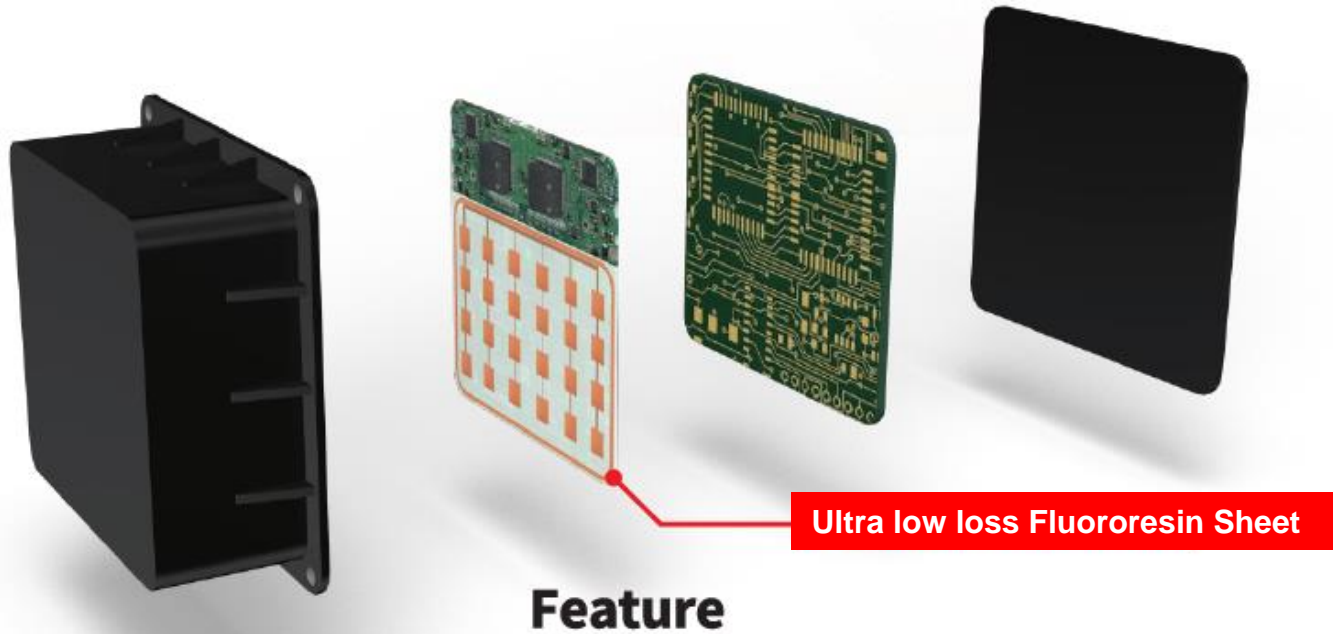


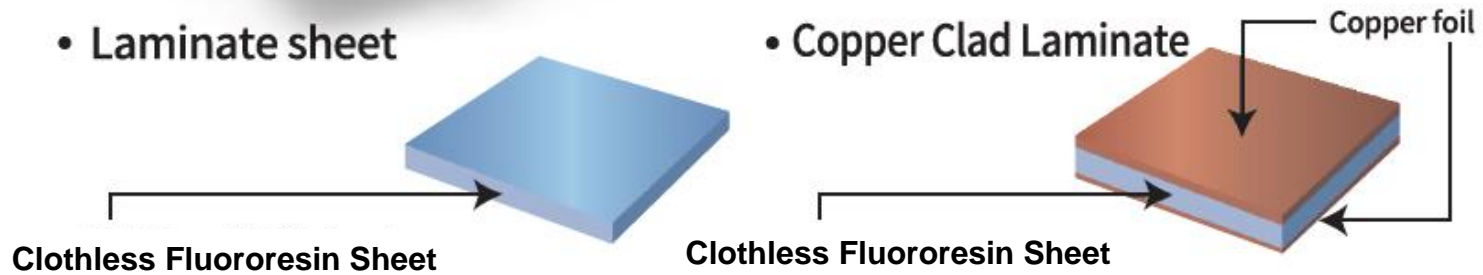
Ultra Low Loss Clothless Fluororesin Copper Clad Laminate

waveSTRATE™ is a low loss high frequency non-reinforced laminate for microwave and mm wave applications.

waveSTRATE™ is available in standard low loss (SMX-20286) and a thermally conductive low loss version (SMX-20285)



Feature



Relative Permittivity	20285	ϵ_r	4.4	Resonator Cavity @ 10Ghz
	20286		2.5	
	20285		4.8	
	20286		2.6	
Dissipation Factor	20285	Tan δ	0.0018	Resonator Cavity @ 10Ghz
	20286		0.0008	
Volume resistivity	20286	$\Omega \cdot \text{cm}$	4×10^{12}	ASTM D257
Surface resistivity	20286	Ω	2×10^{13}	
Specific Gravity	20285	g/cm^3	3.19	ASTM D792
	20286		2.14	
Tear Strength	20285	N/mm	17.25	
	20286		-	
Elongation	20285	%	-	ASTM D638
	20286		115.6	
Thermal Conductivity	20285	W/mK	2.26	ASTM D5470
	20286		0.47	
CTE	x	20285	30	
		20286	40	
	y	20285	44	
		20286	56	
	z	20285	-64	
		20286	-130	
Peel Strength	20285	N/mm	10	JIS C4681
	20286		24	
Cu Surface Roughness	-	μm	0.9	
Flammability	20286		V-0	UL equivalent (testing pending)

Available in 300mm x 300mm size at .1mm ~ .4mm thickness
and 210mm x 150mm at .4~.5mm thickness