



































	CCL Properties				
◆ HC-G series balances Electrical, Thermal and Mechanical properties for optimum performance					
Procedure and properties Copper foil					
	Glass fiber fabric	Drying Pre	epreg	Copper foil CCL	etching
	Item		Unit	Test Condition	Laminate with HC-G series
	Electrical Properties	Dk	-	Split cylinder resonator @10GHz	3.2
		Df	-		0.0013
	Thermal Properties	Tg	°C	DMA	182
		Solder resistance	sec.	Solder dip testing @300℃	>300
	Mechanical Properties	CTE	ppm/K	x-y axis, ɑ1	23
		Peel strength	N/mm	with H-VLP3 Copper foil	0.9
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Summary

- As digital communication technology advances, IC-Substrate and PCB designs require low loss and low CTE dielectric materials that achieve high signal speed with high reliability
- JSR has developed the "HC-G series" of thermoset polymer with low Dk/Df, good adhesion and excellent thermal stability
- Newly developed crosslinker "PJ series" achieves low Dk/Df as well as low CTE
- JSR supports advanced IC-Substrate/PCB applications and continues to develop new low loss material products

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