



# IT-8350G

**IT-8350G- Next Generation Halogen free product for**

- 4 G LTE Base Stations, Power amplifiers
- 24 GHz Automotive radar applications
- 77 GHz. SRR and MRR systems
- 5 G Base Stations & mm wave applications
- Direct Broadcast systems
- Antenna applications
- CPE antennas

**Features**

- Thermoset system with 200 °C Tg
- Very low loss ~0.0025 at 10 GHz.
- Halogen Free
- Excellent dimensional stability
- Very stable DK/Df with Temperature
- Ability to use very low profile Copper for reduced insertion loss.
- Highly suitable for Hybrids
- Ability to make high layer count boards
- Full prepreg offering

## Data sheet - IT-8350G

Property		Units	IT-8350G
		Units	DK-3.50
THERMAL	Thickness		0.504(20 mils)
	Glass Transition Temp (Tg)	DMA	206
		DSC	195
		TMA	185
	Time to Delam (T300)	With Cu	> 60
	Solder Float		> 60
	Solder Dip (PCT@1 hour and 121°C)		> 60
	Thermal Decomposition Temp (5wt%)		425
	CTE: RT-150°C	X-axis	21.0
	CTE: RT-150°C	Y-axis	21.6
	CTE:α1	Z - axis	65
	CTE:α2	Z - axis	268
CTE		%	3.80
ELECTRICAL	Thickness		0.504(20 mils)
	Dielectric Constant (Dk)	@2GHz	3.50
		@3GHz	3.50
		@5GHz	3.50
		@10GHz	3.50
	Dielectric Factor (Df)	@2GHz	0.0025
		@3GHz	0.0025
		@5GHz	0.0025
@10GHz		0.0025	
PHYSICAL	Water Absorption		0.19
	Peel Strength	1 oz (HVLP )	>4.0
	Flammability	-	V0
	Thermal Conductivity		0.52
	Elastic modulus	X-axis	12.00
Y-axis		12.60	