



IT-8338A

IT-8338A- Next Generation FR4 Lead free product for

- LNBs-Direct Broadcast systems
- Antenna applications (2-40 GHz.)
- Dipole antennas

Features

- Thermoset system with 185°C Tg
- Very low loss ~0.036 at 10 GHz.
- FR4 Platform- Low processing and material cost
- 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

Data sheet - IT-8338A

Property		Units	IT-8338A	
		Units	DK-3.38	
THERMAL	Thickness		mm	0.504(20 mils)
	Glass Transition Temp (Tg)	DMA	°C	200
		DSC		185
		TMA		180
	Solder Float		min.	> 60
	Solder Dip (PCT@1 hour and 121°C)			> 60
	Thermal Decomposition Temp (5wt%)		°C	365
	CTE: RT-150°C	X-axis	ppm/°C	16.0
	CTE: RT-150°C	Y-axis	ppm/°C	17.0
	CTE:α1	Z - axis	ppm/°C	48
	CTE:α2	Z - axis	ppm/°C	245
	CTE	Z - axis	%	2.80
ELECTRICAL	Thickness			0.504(20 mils)
	Dielectric Constant (Dk)	@2GHz		3.380
		@3GHz		3.380
		@5GHz		3.380
		@10GHz		3.380
	Dielectric Factor (Df)	@2GHz		0.0034
		@3GHz		0.0035
		@5GHz		0.0036
@10GHz			0.0036	
PHYSICAL	Water Absorption		%	0.20
	Peel Strength	1/2 oz (RTF)	lb/in	>4.0
	Flammability	-	Second	V0
	Thermal Conductivity		W/(mx° C)	0.46
	Elastic modulus	X-axis	GPa	14.40
Y-axis		GPa	14.80	

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