



TLC-W-593/ TLC-W-593GM Series (CCL)

Application

- Antenna
(for Base Station of Mobile Phone ETC
Wireless LAN etc.)
- High frequency filter, Power Amp.
for Base Station, Converter for CS, BS
- IC Plastic Packages , High frequency
Device etc.

Features

- Transmission loss in the GHz area roughly
equals PTFE.
- Small drift of an electric characteristic
is excellent.
- High Tg ,low water absorption and
high reliability.
- Poisonous gas is not generated.

General Property

Item	Condition	Unit	593	593 GM	Glass /PTFE	
Flame Resistance	E-168/70	-	V-0 (Rating) Halogen Free	V-0 (Rating) Halogen Free	V-0	
Dielectric Constant	C-96/20/65 [1GHz]	-	3.6	3.4	2.7	
Dissipation Factor	C-96/20/65 [1GHz]	-	0.0022	0.0016	0.0014	
Glass Transition Temp.	TMA	°C	160-180	160-180	18-23	
Water Absorption	PCT-2/121	%	0.18	0.18	0.08	
Coefficient of Thermal Expansion	X,Y	(<Tg)	13	13	-	
			Z	(<Tg)	ppm/°C	30
	(>Tg)	200				200

Transmission Loss

