



PCB Materials for Handheld Device Antennas

Smartphones | Tablets | Media Players

Increased design flexibility with cost effective solutions

- High dielectric constant options
- Low dielectric loss
- Wide range of dielectric thickness options

Environmentally friendly (RoHS, Lead Free, Halogen Free options)

Global manufacturing and support



RO3000® High Frequency Laminates

Property	Condition & Test Method	
Composition	PTFE-Ceramic Composite	
Dielectric Constant Options, ϵ_r	3.00, 6.15, 10.2	10 GHz, 23°C. IPC-TM-650 2.5.5.5
Dissipation Factor, $\tan \delta$	0.0010 to 0.0022	10 GHz, 23°C. IPC-TM-650 2.5.5.5
Thickness Options	0.005" to 0.250" in 5 mil Increments	
Moisture Absorption	< 0.5%	D-24/23. IPC TM-650 2.6.2.1
Foil Cladding Options	1/2 oz., 1 oz., 2 oz. ED copper, also available unclad	

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