LTCC Basis– Tape
(GK-Tape)

Preliminary Data Sheet

Unfired Properties

Sheet density : ca. 1.60 g/cm³
Thickness, green: 120 µm, 200 µm

Fired Physical Properties

Shrinkage x,y: 16-17.5%
Lamination Pressure
(isostatic pressing) 20-25 MPa, 70-80°C
Firing Process
(depending on furnace profile) Heating rate 2-4 K/min
Peak temperature 850-900°C
Dwell time 10-30 min
Surface properties:
(as fired) R₁ 2.0±0.5 µm
R₂ 0.1-0.2 µm
W₁ 3-9 µm cm⁻¹
Chemical resistance like DF Al₂O₃

Fired Electrical Properties

Dielectric Constant ε₁ 4.82 (10MHz-1GHz)
Δε ± 0.07 (10MHz-1GHz)
Dissipation Factor tanδ 1.7-2.6x10⁻³ (10MHz-1GHz)

Fired Thermal Properties

Thermal Expansion (25-400°C) 4.3±0.2 ppm/K
λ 3 Wm⁻¹K⁻¹