

Sub: Additional technical details for Scalar Network Analyzer

1. General applications: Circuit board, Absorber, Shielding, Ferrite, Radome, Dielectric resonators, Sheets of dielectric samples
2. Materials to be measured: Solid, Powder, Sheet, Foam, Pellets
3. Property to measure: μ , ϵ , $\tan \delta$, Quality factor (Q)
4. Frequency range: highest interest-10 MHz to 25 GHz, Specific frequencies- 5 GHz, 15 GHz
5. Mode of operation: A few precise measurements
6. S-Parameter test set: Built in S-Parameter test set
7. Size limitation of the material
 - (a) Cylindrical pellets- 14 mm diameter and 7 mm height (for resonant cavity method)
 - (b) Sheets of dimension 50 mm x 50 mm x 2 mm (for SPDR measurements)
 - (c) Rectangular strips of dimensions 20 mm x 2mm x 2 mm (for cavity perturbation method)