Abstracts

Isolation Rating of Ferrite Components at High Pulse Powers (Correspondence)

K.G. Narayanan and G.P. Sharma. "Isolation Rating of Ferrite Components at High Pulse Powers (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.6 (Jun. 1970 [T-MTT]): 322-323.

Any method used to measure the isolation provided by a ferrite component at high pulse powers must also consider the effect of possible distortion to the pulse shape owing to the nonlinear phenomena in ferrites. When such pulse shape distortion occurs, measurement methods based on average crystal current measurement or temperature rise in a calorimeter yield erroneous results. It is necessary that the method of measurement of isolation must be one which finds the difference between the maximum heights of the input and output pulses to the component irrespective of the pulse shape at the two ports.

❑ Return to main document.