

Abstracts

Temperature-Compensated BaTi/sub 4/O/sub 9/ Microstrip Delay Line

Y.S. Lee and W.H. Childs. "Temperature-Compensated BaTi/sub 4/O/sub 9/ Microstrip Delay Line." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 419-421.

A temperature-stable 16-ns delay element operating at 14 GHz has been developed using barium tetratitanate (BaTi/sub 4/O/sub 9/) ceramic microstrip lines with a short sapphire (single crystal Al/sub 2/O/sub 3/) microstrip section for temperature compensation. The measured transmission phase temperature coefficient of the delay element is +0.6 (± 0.3) ppm/°C over the temperature range of 23°C \pm 30°C.

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