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COAXIAL RESONATOR OSCILLATOR (CRO)

(Technology Transferred to Anath Technologies Pvt. Ltd., Hyderabad)

Coaxial Resonator Oscillator (CRO) are used in S Band telemetry receivers and C Band down converters. Coaxial resonator oscillators are used as local oscillators in receivers and as fundamental sources in FM transmitters upto 5.0 GHz range temperature stability of 2.0 ppm/c. The CRI is a transmission line of quarter wave length with short, results in the functionality of a parallel resonator circuit. In CRO, the high Q coaxial resonator determines frequency of oscillations. The CRO has better stability and higher Q compared to conventional Voltage Controlled Oscillator (VCO). CRO can be used for the design and development of transmitter system.

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