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NASA TECH BRIEF



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Continuous Wave Detector Has Wide Frequency Range

A small, portable, battery-operated detector, designed to monitor electronic equipment used in the Saturn II program, indicates the presence of steady state signals exceeding a predetermined value over a wide frequency range. The indication is provided by the closure of output relay contacts. The contact closure occurs and is maintained when the steady state input signal is within the frequency range from 400 Hz to 500 MHz and the amplitude of this signal exceeds a preset threshold voltage within the dynamic range of 1.0 millivolt to 3.0 volts rms. The threshold voltage is manually adjustable within the dynamic range of the detector. The frequency range of the detector is divided into two frequency bands: namely, an LF band extending from 400 Hz to 200 kHz and an HF band extending from 200 kHz to 500 MHz. Band selection is accomplished by a manually operated switch.

Note:

Inquiries concerning this circuit may be directed to:
Technology Utilization Officer
Marshall Space Flight Center
Huntsville, Alabama 35812
Reference: B67-10386

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C. 20546.

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under contract to
Marshall Space Flight Center
(MFS-1849)

Category 01