

Technical Note TN-896

## Measuring the Bit Error Rate on TB9100 Base Stations

1 August 2004

Applicability All TB9100 base stations.

## 1. Introduction

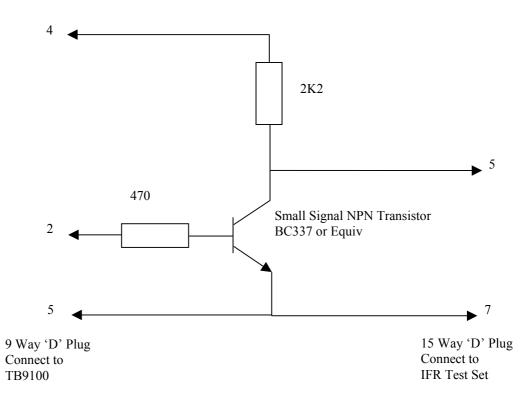
Measuring BERThe TB9100 base station has a built-in ability to estimate the<br/>BER (bit error rate). While this is not an exact measure,<br/>users will find it sufficiently useful in many situations.

Measuring BER<br/>with testIf an exact method of measuring the base station's receive<br/>BER is required, this can be done using an IFR 2975 P25<br/>radio test set from Aeroflex Incorporated. Follow the<br/>instructions in the IFR documentation, and make up the<br/>following interface cable.

## 2. The Interface cable

Make up the following interface cable for connecting the base station's RS-232 output to the IFR's rear RS-232 input. This cable is necessary because the IFR input does not follow the RS-232 standard..

Parts required9-Way 'D' Plug<br/>9-Way 'D' Shell<br/>15-Way 'D' Plug<br/>15-Way 'D' Shell<br/>Transistor BC337 or equivalent<br/>Resistor 470R<br/>Resistor 2k2



## 3. Issuing Authority

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