



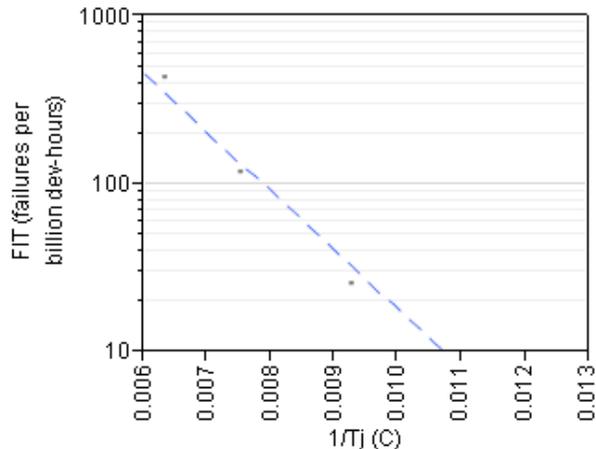
RF5365 Reliability Report

Introduction

The RF5365 provides an integrated Front-end solution for WLAN 802.11b/g/n and Bluetooth® systems. The ultra small form factor package and integrated matching greatly reduces the number of external components and layout area in the customer application. This simplifies the total Front-end solution by reducing the bill of materials, system footprint, and assembly cost. The RF5365 integrates a 2.4GHz Power Amplifier (PA), 2170MHz notch filter for coexistence with cellular radios, second harmonic attenuation, power detector coupler for improved accuracy, and a SP3T switch capable of simultaneous reception for WLAN and Bluetooth®. The device is provided in a 2.5mmx2.5mmx0.5mm, 12-pin package. This module meets or exceeds the RF Front-end needs of IEEE 802.11b/g/n WLAN RF systems.

Random Failure Rate

Based on the existing HTOL data set consisting of all released HBT8 parts, the random FIT rate vs $1/T_j$ is estimated in the graph below. The data set consists of over 75 million accelerated hours of stress at 125 C, and assumes an activation energy of 0.7 eV.



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