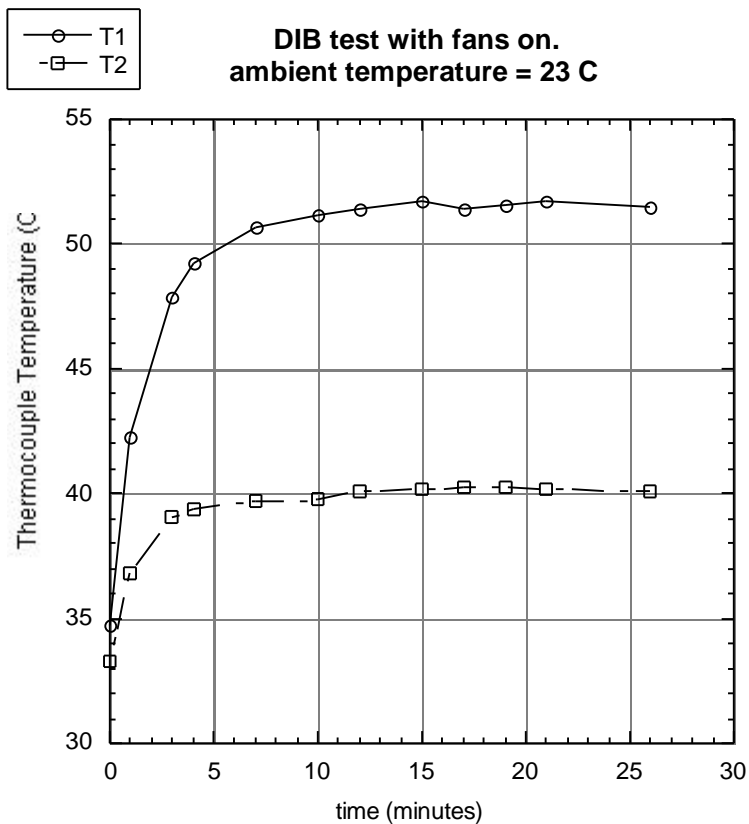


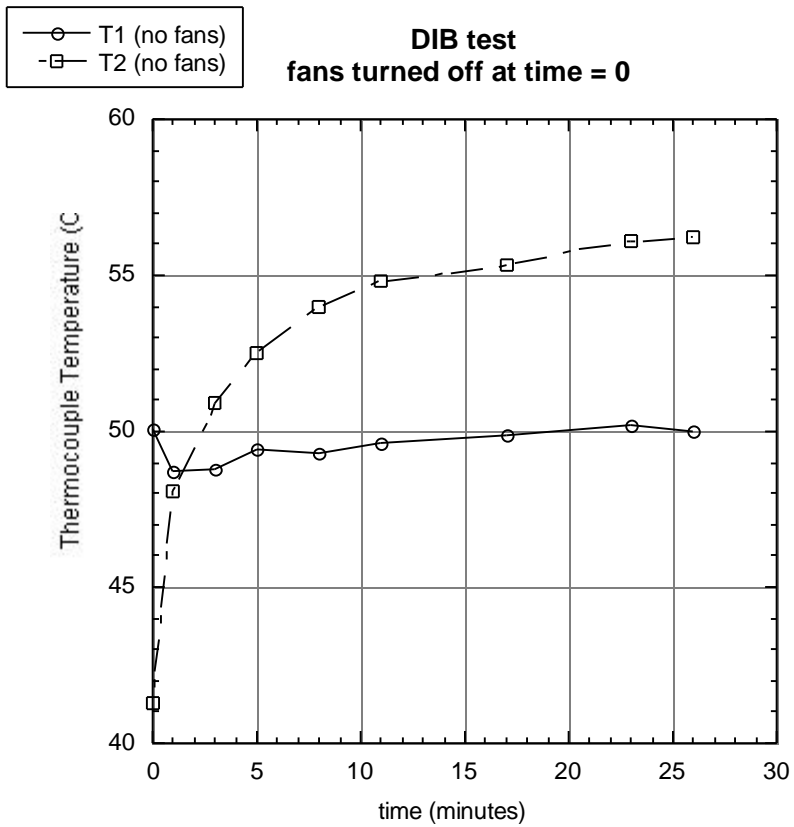
DIB Cooling Test Results

We measured the case temperatures of 2 well located Lucent driver chips on a DIB board. With the fan cooling on the back-of-the-crate cards the temperatures of the BDP1A16G chips measured stay below 52 C.

Setup:

STAR trigger standard 9U VME crate fitted with rear mounted cooling fans. DIBs located in slots 12-16. DSMI located in slot 20. DIB in slot 14 cables to DSMI, other DIBS with cables plugged in but not terminated. CDB plugged into slot 14 and clocked. Temperature sensors taped to U35 (T1) and U32 (T2) on the DIB in slot 14.





From the data sheet it appears that the maximum junction temperature in the BDP1A16G of 125 C is seen with a case temperature of 85 C. If we assume that the ambient temperature in the STAR racks is 10 - 20 C hotter than the ambient temperature in Bldg. 50 than we appear to be safe.