

# Component FMECA- Typical Failure Modes

Component type	Main failure mode	Typical %
Digital logic	Output stuck at high or low	80%
	No function	20%
Linear	Parameter drift	20%
	No output	70%
Transistors	Low gain	20%
	Open circuit	30%
	Short circuit	20%
	High leakage (C-B)	30%
Diode (rectifying)	Short circuit	10%
	Open circuit	20%
	High reverse current	70%
Resistor (film, fixed)	Open circuit	30%
	Parameter change	70%
Capacitor (fixed)	Short circuit	60%
	Open circuit	20%
	High leakage	10%
	Parameter change	10%

*NOTE for Reliability Testing:*  
Each failure mode has usually its own acceleration factor!