

# Coilcraft FIT Values

Our steady state FIT values are calculated per Telcordia SR-332 Issue 4 (2016).  
These calculations are based on the following conditions:

**Environment** Ground, Fixed, Controlled

**Device Method** I-D

**Quality Level** II

**Electrical stress** 100%

**Operating Temperature** 85°C

**Activation energy** 0.15 eV

**MTBF** =  $10^9$  (hours)/FIT

	Telcordia SR-332 Issue 4*			
	90% UCL		60% UCL	
	FITs (ppb hours)	MTBF (hours)	FITs (ppb hours)	MTBF (hours)
<b>RF Magnetics</b>				
Chip inductors, air core inductors, RFID coils	0.27	3.70E+09	0.23	4.348E+09
Tunable inductors	4.97	2.01E+08	3.59	2.786E+08
Broadband conical inductors	0.67	1.49E+09	0.51	1.961E+09
Wideband RF transformers / baluns / chip transformers	13.92	7.18E+07	9.71	1.030E+08

<b>Power Magnetics</b>				
SMT and THT power inductors	0.67	1.49E+09	0.51	1.961E+09
Coupled power inductors	15.43	6.48E+07	10.55	9.479E+07
Transformers / Current sensors	15.43	6.48E+07	10.55	9.479E+07

<b>EMI Magnetics</b>				
CM chokes	15.43	6.48E+07	10.55	9.479E+07

\*Note: All calculations are based on the following conditions: Ground, Fixed, Controlled Environment, I-D Device Method, Quality Level II, 100% electrical stress, 85°C operating temperature, and 0.15 eV activation energy.