Sample Maturity Level Definition

Depending on the progress of development different samples in hardware, software and or mechanics are created with different quality levels. This document describes the quality level of the samples.

ENG- sample (engineering- sample):

- for analysis of function or partial function in hardware and/or software
- can be free laboratory setup
- any physical shape (e.g. printed circuit board, hole pattern or free wiring
- used for evaluation and measurement
- does not have to be transportable
- typ. Finepower internal sample

A- sample:

- Target functionality in hardware/software has largely been achieved, and presentable
- Mounting on printed circuit board with or without housing
- Typical manual assembly, milling corrections and manual rewiring on printed circuit board is possible
- reproducible sample status (2 or more handmade samples)
- Measured values to characterize the function
- circuit diagram, Layout files, parts list and software code available (SW if applicable)
- Transportability (e.g. dispatch under conditions) is possible
- limited standard-compliant design with regard to electrical safety, EMC and other standards
- component material may differ to B- / C- sample
- basic device documentation

B- sample:

- sample for qualification, compliance test and certification
- assembled following targeted production process
- individual, minimal corrections on printed circuit boards or components are possible
- Reproducibility of the instrument status including the technical Parameter is given (e.g. small or pattern series)
- documentation according to specification including all proofs and protocols
- Unrestricted transportability
- Design Guidelines of designated EMS are considered

C- sample:

- ready for production
- complying to requirement specification
- full documentation

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