

Updated approach for passive-COTS (ECSS-Q-ST-60-13). Practical case.

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ECSS-Q-ST-60-13C was released in October 2013 after lengthy discussions and trying to achieve the maximum consensus between main space companies in Europe. However, as highlighted in different symposiums and working groups in the last years, the existing ECSS-Q-ST-60-13C drives the additional activities to be performed over active commercial parts to be used for Space applications but not related to passive components, leading to different approaches and test flows by the different actors involved in procurement, testing and product assurance.

This lack of standard for commercial passive components in ECSS system and the need to update the ECSS-Q-ST-60-13 triggered the creation of a new working group to revise this document. At present, this working group is very closed to reach consensus for the test flows to be used for each class mission but draft version is already available. This draft document already includes the test sequence to be applied for each family of components but this time also adding the most important families of passive components (capacitors, resistors and inductors) and also a clear distinction between AEC-Q and pure commercial component.

Under ESA contract No. 4000131550/20/NL/FE/hh, a set of commercial passive types are procured and submitted to the almost-agreed test sequence to show real application of the forthcoming document.