



Scientific Instrumentation

RUv2

RUv2 active components qualification documents

Project	RUv2 (W000xxxx)	Author(s)	M.J. Rossewij
Name	RUv2 active components qualification documents	Date	1-Feb-2018
Filename	ITS_RUv2_componentQualification.docx	ID	W000xxxx
Printed	11-4-2018 20:33	Status	Concept
		Version	0.1
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Document History

Version	Date	Author	Section	Description
0.1	1-Feb-2018	M.J. Rossewij	-	First concept.

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1 Introduction

This document contains an overview of the test and qualification documents of the active components intended to be used on RUv2.

REFDES	Device	Reference	TID krad
U1	SCA	Qualified by GBTx team	Ok
U2-U4	GBTx		
U5	CYUSB3014-BZXC	Qualification not needed. USB3 components will be unpowered during experiment/radiation	Ok
U6	USB82400102		
U7	NCP361SNT1G		
U8,U9	24FC1025-I/SM		
X4	CX2520DB19200D0FLJC2		
U10-U16	LMZ31710RVQ	https://twiki.cern.ch/twiki/pub/ALICE/BASE20testing/2016_06_08_TID_testbeam_report_lg.docx (LMZ31503)	30
		https://indico.cern.ch/event/693890/contributions/2846941/attachments/1583662/2503678/20180116_WP10_plenary_JS.pdf	>10
		https://indico.cern.ch/event/626954/contributions/2532813/attachments/1435381/2206935/DCDC_tests_under_magnetic_field_28_03_17.pdf	NA
		https://indico.cern.ch/event/625131/contributions/2524193/attachments/1431330/2198807/DCDC_tests_under_magnetic_field_21_03_17.pdf	NA
U17-18	CDCLVD1212	https://indico.cern.ch/event/299180/contributions/1659565/attachments/563051/775695/Poster_ClockDemo_TWEPP14.pdf	1130
U28	Si5316	Not Qualified, Probably not needed	?
X3	ABM8-166-114.285		
U39	QS3VH126S1G	https://radwg.web.cern.ch/radwg/Pages/Documents/TulliosPartList.pdf (QS3VH125S1G)	42
U19-U26	AD8418WBRZ	https://twiki.cern.ch/twiki/pub/ALICE/BASE20testing/TID_second_testbeam_report_ac.docx	30
U27	XCKU060FFVA1156	WP10	TBD
U36,37	SN74AVC1T45DCKR	Qualification not needed. LEDs unpowered during experiment/radiation	Ok
D2	598-8410-207CF		
D4	SML-310PT		
U29	SN65HVD233-EP	Unqualified, looks like space part: SN65HVD233-SP => Include replacement option for ISL71026MVZ https://www.intersil.com/content/dam/Intersil/documents/isl7/isl71026m.pdf	30
U30	K9WBG08U1M-PIB0	https://escies.org/download/webDocumentFile?id=63077 https://escies.org/download/webDocumentFile?id=62803 https://escies.org/download/webDocumentFile?id=62852	70
U31	A3PExx00L	http://www.microsemi.com/products/fpga-soc/radtolerant-fpgas/rt-proasic3	40
U32-U35	SN65MLVD080DGG	https://twiki.cern.ch/twiki/pub/ALICE/BASE20testing/TID_second_testbeam_report_ac.docx	30
U38	TPS3306-15D	Used in Alice TPC (Johan Alme)	Ok
X1, X2	IQXO-661	https://edms.cern.ch/document/1327311/1 (CFPS-73)	50
D3	STPSC806G-TR	https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20110015251.pdf (STPSC806D)	9000
Q1	NDP6020P	http://villalmo.mib.infn.it/talks/M_Menichelli.pdf	30