



Product Quality Audit Report

Date 19/11/2015	Customer (UNIO9) Universitat zu Kiel				
Invoice Details	Tool Number 171439	Works Order 277426	Sales Order 275062	Layer Type MULTILAYER (8)	Release ECSS-Q-ST-70-11C
Customer Details	Part Number STEP FM analog		Part Issue V02	Purchase Order Number 441	

PCB MARKINGS

Part number & Issue / revision level correct	Accept	1546
Manufacturers mark & date code correct	Accept	
Release coding (UL mark etc) correct	Accept	

GENERAL

Profiled edges free from loose fibres, pip marks etc	Accept	Spec:	Actual:
Bow and Twist within specification	Accept		
Materials / surface finish correct	Accept		
General appreance / workmanship	Accept		
Electrical Test complete	Accept		
Laboratory Test complete (Report available if required)	Accept		
Sample board included	Accept		

OUTER LAYER PATTERN

Annular Ring meets min requirements	Accept
Track width	Accept
Track spacing	Accept
Conductor pattern (Spurious copper etc within acceptable limits	Accept

SOLDERMASK / ANNOTATION / PEELABLE MASK

Solder Resist colour / type	N/A
Annotation colour	N/A
No encroachment onto pads (other than by design)	N/A
Solder Resist free from skips, inclusions etc	N/A
Legend clear and legible	N/A
Adhesion	N/A
No contamination of component holes	Accept
Peelable mask - correct type / registration / coverage	N/A

DIMENSIONS / SCORE / BOARD THICKNESS

Outline dimensions correct	Accept	Spec: 1.60 +0.10 / -0.10	Actual: 1.63
Hole sizes correct	Accept		
Score lines - correct position / web thicknes	Accept		
Board thickness - MM	Accept		



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Hole size summary

DIMENSIONAL SUMMARY

Hole Ref	Nominal	Tolerance		Actual	Type	Unit	Ref No	Nominal	Tolerance		Actual	Deviation	Unit
		+	-						+	-			
B	0.59	0.10	0.10	0.57	PTH	MM							
C	0.65	0.10	0.10	0.66	PTH	MM							
D	0.74	0.10	0.10	0.71	PTH	MM							
E	1.80	0.10	0.10	1.78	PTH	MM							
F	2.19	0.10	0.10	2.18	PTH	MM							

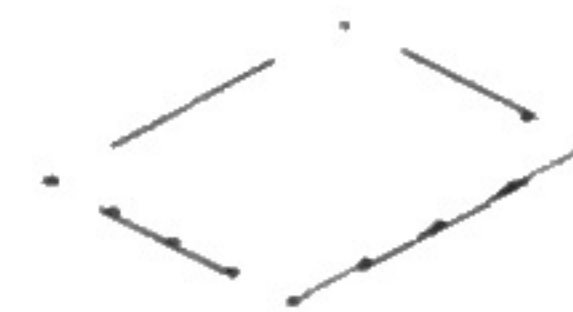
Dimensional report
attached

NOTES

PCB SERIAL NUMBER MEASURED A11
UNABLE TO MEASURE 0.4 HOLE

COMPLETED BY

Lynnette Craig



Drawing No.	SO-STEP-C2-2390	Batch No.	AF 2	Date	18-Nov-15 8:51
Tool Number	171439	W/O No	277426	Inspector	S.WOODFORD
Customer	UNIVERSITAT ZU KI	Material		Notes	

Identifier	Dimension		Dim. Error	Limit		Pass/Fail
	Nominal	Actual		Upper	Lower	
120mm Between Line and Line	120.00	119.98	-0.02	120.20	119.80	PASS
100mm Between Line and Line	100.00	99.99	-0.02	100.20	99.80	PASS
29mm Between Circle and Circle	29.00	28.99	-0.01	29.10	28.90	PASS
29mm Between Circle and Circle	29.00	29.00	0.00	29.10	28.90	PASS
29mm Between Circle and Circle	29.00	29.00	0.00	29.10	28.90	PASS
29mm Between Circle and Circle	29.00	29.00	0.00	29.10	28.90	PASS
24mm Between Circle and Circle	24.00	24.00	0.00	24.10	23.90	PASS
24mm Between Circle and Circle	24.00	24.00	0.00	24.10	23.90	PASS
24mm Between Circle and Circle	24.00	24.00	0.00	24.10	23.90	PASS
2mm Rad Unit 8	R2.00	R2.00	R0.00	R2.20	R1.80	PASS
2mm Rad Unit 19	R2.00	R1.99	R-0.01	R2.10	R1.90	PASS
24mm Between Circle and Circle	24.00	24.00	0.00	24.10	23.90	PASS