BALLON NUMBER	PART NUMBER	DESCRIPTION
1	AT-CTF-PCB-050	MAIN PCB
2	ARDUINO-DUE	Main Microcontroller
3	ARDUINO-DUE	Test Signal Generator
4	ATF-CTF-005-050	Test Fixture MAX 0.5mm x 50pin
5	ATF-CTF-005-050	Test Fixture MAX 0.5mm x 50pin
6	DUT-CABLE	Test Fixture MAX 0.5mm x 50pin

NOTES

1. PINS NUMBERED 1–50. TESTS CAN RUN ON PARTIAL OR FULL RANGE.
2. OPEN = NOT CONNECTED. SHORT = UNEXPECTED CONNECTION.
3. SIGNAL CONTROLLER ↔ MAIN CONTROLLER COMMUNICATES VIA I²C.
4. CONNECT DUT CABLE ↔ FIXTURE PROPERLY BEFORE TESTING.
5. UI DISPLAYS RESULTS IN REAL-TIME: GREEN = PASS, ORANGE/RED = OPEN, RED = SHORT.
6. CONTROLLERS ARE ARDUINO-COMPATIBLE. FIRMWARE MUST BE LOADED.
7. LOGS INCLUDE TIMESTAMPED TEST RESULTS. USE FOR DIAGNOSTICS.
8. PCB TRACES ARE NOT SHOWN IN THIS VIEW.
9. SEE GITHUB REPO FOR SOFTWARE AND FIRMWARE.

www.zaxisconnector.com

ISO 9001:2015 Certified

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
FRACTIONAL ±1/32
ANGULAR: MACH±1/2° BEND ±
TWO PLACE DECIMAL ±.25
THREE PLACE DECIMAL ±.127
FOUR PLACE DECIMAL ±.0051

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
See Notes

FINISH
NONE

	NAME	DATE
DRAWN	JDG	10/2/25
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Z-AXIS CONNECTOR CO.

TITLE:
Automatic Cable Tester

SIZE **C**
DWG. NO. ATF-CTF-ASM-000-2D
REV –

SCALE: SHEET 1 OF 1

NEXT ASSY   USED ON
APPLICATION   DO NOT SCALE DRAWING