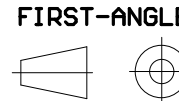


1	2	3	4	5	6	7	8
A	ASSEMBLY PCB NOTES: (Unless Otherwise Specified)						REV
	1. Assemble per current revision of IPC–A–610, Class 2.						DATE
	2. Reference Bill of Material for components instaled.						CHANGES
	3. After assembly individual assemblies are to be separated from panel and shipped as single pieces.						DESCRIPTION
	4. Bottom Assembly Drawing is visible from bottom of board (mirrored).						NAME:
	5. Assembled PCB should be RoHS compliant.						A.1
	6. Substitution of components is allowed, if the replaced components have the parameters equal or better than those in Bill of Material.						05.12.2014
B	7. Conformal coating should be applied on both sides of the assembled PCB.						INITIAL RELEASE
							A.2
							08.04.2015
							Changed R8, U3, U4
							S.Blicharz
							S.Blicharz
C							
D							

DRAWINGS LIST - ASSEMBLY PCB: 1051.00035.00_1 A.2			
Project		Heated_Dispenser.PrjPCB	
Variant		Standard	
Number	Drawing Number	Description	Revision
1	1051.00035.00_2	Schematic; Heated Dispenser Board	A.2
2	1051.00035.00_0	PCB; Heated Dispenser Board	A.1
3	1051.00035.00_3	Stencil; Heated Dispenser Board	A.1
4	1051.00035.00_4	Software; Heated Dispenser Board	A.1
5			
6			
7			

PARTS LIST - ASSEMBLY PCB 1051.00035.00_1						
Project		Heated_Dispenser.PrjPCB				
Variant		Standard				
Number	LibRef	Description	Technology	Layer	Designator	Quantity
1	CMP-08781-A.2	CAP 4.7uF 50V ±20% 1206 (3216 Metric) Thickness 1.9mm SMD	SMT	Top	C1	1
2	CMP-08248-A.2	CAP 10uF 6.3V ±20% 0805 (2012 Metric) Thickness 1.45mm SMD	SMT	Top	C2	1
3	CMP-08452-A.2	CAP 100nF 50V ±20% 0805 (2012 Metric) Thickness 1mm SMD	SMT	Top	C3, C4, C5, C6, C7, C8	6
4	CMP-00219-A.2	General Purpose Rectifiers 400V, 1A		Top	D1	1
5	CMP-08212-A.3	Blank PCB		Top	PCB1	1
6	CMP-10279-A.2	General Purpose Transistor NPN Silicon		Top	Q1, Q2	2
7	CMP-1058-00308-1	Power MOSFET, 30 V, 54 A Single N-Channel, 3 Pin DPAK, Pb-Free, Tape and Reel		Top	Q3	1
8	CMP-03297-A.3	10k 0.125W 5% 0805 (2012 Metric) SMD	SMT	Top	R1, R4, R7, R9	4
9	CMP-03281-A.3	2k 0.125W 5% 0805 (2012 Metric) SMD	SMT	Top	R2, R5	2
10	CMP-05197-A.3	1k 0.25W 5% 1206 (3216 Metric) SMD	SMT	Top	R3, R6	2
11	CMP-03709-A.3	1k 0.125W 1% 0805 (2012 Metric) SMD	SMT	Top	R8	1
12	CMP-0244-00125-1	1.5A Low Drop Positive Voltage Regulator, 3.3V, 3-Pin DPAK, Tape and Reel		Top	U1	1
13	CMP-0304-00039-2	ARM Cortex-M0 32-bit MCU, 16 KB Flash, 4 KB Internal RAM, 15 I/Os, 20-pin TSSOP, -40 to 85 degC, Tube		Top	U2	1
14	CMP-10484-A.1	Omnipolar Hall-Effect Switch		Top	U3, U4	2

VARIANT: [No Variations]

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ALL DIMENSIONS ARE IN METRIC	DRAWING NAME: Assembly PCB; Heated Dispenser Board			
ALL DECIMAL +- .005 ANGULAR +- 1/2 FIRST-ANGLE 	Heated Dispenser PCB.doc		DATE	DRAWING NO
	CREATED BY:	S.Blicharz	9/26/2017	1051.00035.00_1
	CHK'D BY:		SCALE	
			SCALE: 1.00	
		APP'D BY:	Variant	REVISION
		[No Variations]	A.2	
SHEET NAME AND NUMBER	Assembly Parts List - Sheet 1 of 4			

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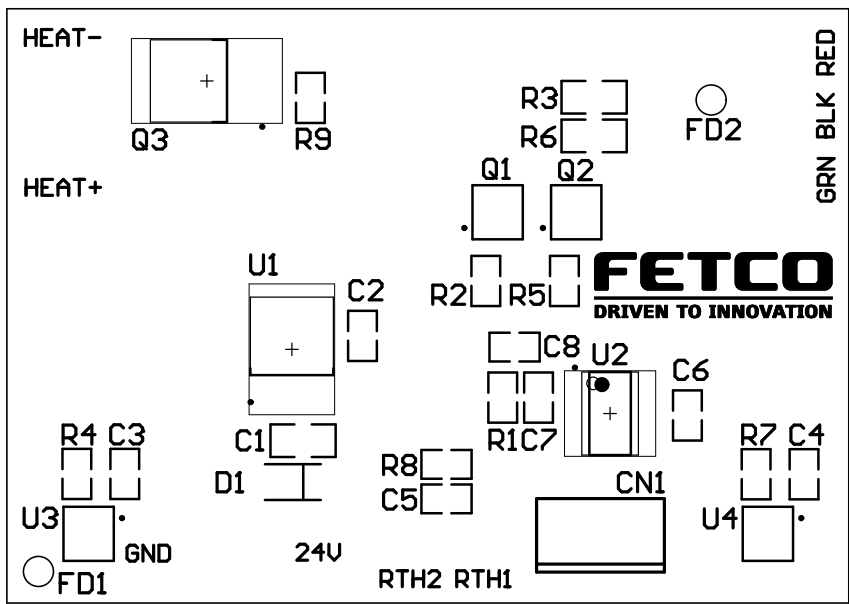
PARTS LOCATIONS1051.00035.00_1

ProjectHeated_Dispenser.PrjPCB
VariantStandard

Number	Designator	Center-X(mm)	Center-Y(mm)	Layer	Rotation
1	C1	23.546	12.903	Top	0
2	C2	28.27	21.234	Top	90
3	C3	9.373	10.262	Top	90
4	C4	63.373	10.236	Top	90
5	C5	34.95	8.28	Top	0
6	C6	54.102	14.91	Top	90
7	C7	42.266	16.332	Top	270
8	C8	40.361	20.345	Top	180
9	D1	22.736	9.614	Top	90
10	PCB1	-535.227	-430.357	Top	0
11	Q1	39.014	31.064	Top	0
12	Q2	45.263	31.064	Top	0
13	Q3	16.7	41.504	Top	180
14	R1	39.421	16.332	Top	270
15	R2	38.075	25.603	Top	90
16	R3	46.685	40.206	Top	0
17	R4	5.563	10.262	Top	90
18	R5	44.323	25.603	Top	90
19	R6	46.685	37.135	Top	0
20	R7	59.563	10.236	Top	90
21	R8	34.95	11.024	Top	180
22	R9	24.13	40.157	Top	270
23	U1	22.657	19.068	Top	90
24	U2	47.955	15.062	Top	0
25	U3	6.5	5.5	Top	180
26	U4	60.5	5.5	Top	180

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ALL DIMENSIONS ARE IN METRIC	DRAWING NAME: Assembly PCB; Heated Dispenser Board			
	Heated_Dispenser.PcbDoc		DATE	DRAWING NO 1051.00035.00_1
	CREATED BY: S.Blicharz		9/26/2017	
	CHK'D BY:		SCALE SCALE: 1.00	
ALL DECIMAL +/- .005 ANGULAR +/- 1/2 FIRST-ANGLE 	APP'D BY:		REVISION [No Variations]	A.2
SHEET NAME AND NUMBER	Assembly Parts Locations - Sheet 2 of 4			



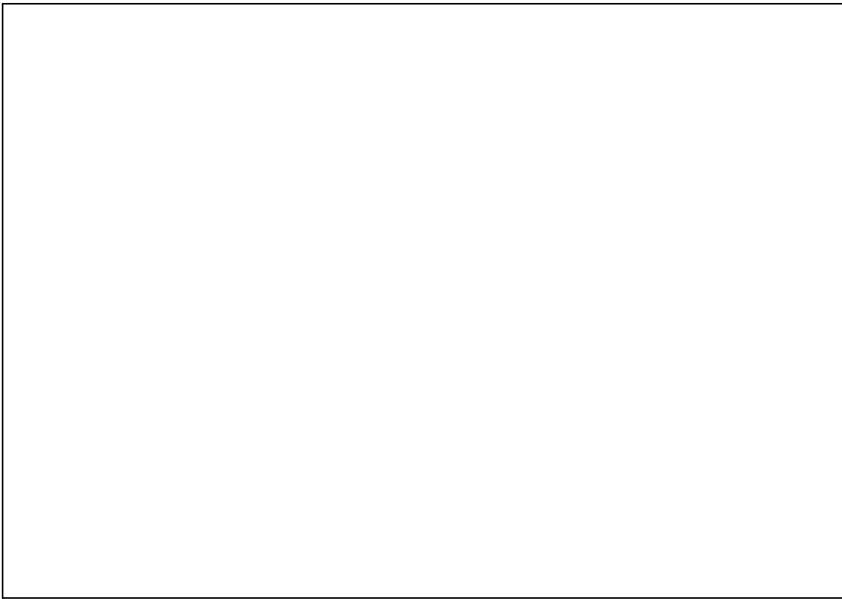
LAYER NAME: Top Assembly Drawing – Sheet 3 of 4

PLOT FILE: Top Assembly Drawing – Sheet 3 of 4

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UNLESS OTHERWISE SPECIFIED			Adamowicza 8, 05-530 Gora Kaluaria, POLAND	
ALL DIMENSIONS ARE IN METRIC	DRAWING NAME: Assembly PCB; Heated Dispenser Board		PHONE: +48 22 7274787 FAX: +48 22 7274788	
			E-MAIL: engineering@fetco.com www.fetco.com	
	Created_Dispenser.PcbDoc		DATE	
	CREATED BY: S.Blicharz		9/26/2017	
ALL DECIMAL $\pm .005$ ANGULAR $\pm 1/2$ FIRST-ANGLE	CHK'D BY:		DRAWING NO	
	SCALE: 1.00		1051.00035.00_1	
	APP'D BY:		REVISION	
[No Variations]		A.2		
SHEET NAME AND NUMBER	Top Assembly Drawing - Sheet 3 of 4			

1	2	3	4	5	6	7	8
A							A
B							B
C							C
D							D



Bottom Assembly Drawing (Mirror) – Sheet 4 of 4

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ALL DIMENSIONS ARE IN METRIC ALL DECIMAL +/- .005 ANGULAR +/- 1/2 FIRST-ANGLE 	DRAWING NAME: Assembly PCB; Heated Dispenser Board			
	CREATED BY: S.Blicharz		DATE: 9/26/2017	DRAWING NO: 1051.00035.00_1
	CHK'D BY:		SCALE: 1.00	
	APP'D BY:		REVISION: A.2	
SHEET NAME AND NUMBER		Bottom Assembly Drawing - Sheet 4 of 4		