

## ANNEXURE-A

### SPECIAL TERMS & CONDITIONS FOR FUZE PD 155 PCB ASSEMBLY

1. Firm has to sign Non –discloser agreement (NDA) with MTPF as per the format enclosed.
2. MTPF will provide Bill of Material (BOM) to manufacture PCB . Firm has to strictly use components as per BOM & no deviations will be accepted.
3. Gerber file will be provided only after placement of supply order.
4. Firm has to supply PCB-I soldered with Berg strip 1 ( 4 pin,1.27mm pitch ) and PCB –I & PCB-II inter connected with Berg strip 2 (2pin,2.54mm pitch at 2 interconnection points of PCB) as per Drawing in part II of Annexure-A .
5. Firm has to supply PCB assembly with Nine wires soldered as per details in part –II of Annexure –A .
6. Proper care should be taken during stripping of wire in order to avoid cutting of strands.
7. MTPF will not provide any material.
8. Firm has to give unique serial number to each PCB assembly.
9. Firm will test PCB assembly for initial test specified as per part –I of Annexure-A
10. After supply of PCB assembly Micro controller will be programmed at MTPF & further functional testing will be carried out at MTPF. After passing functional trial only PCB will be accepted.

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DO/FS

**Bill of Material for Electronic Components for EPD FUZE (155 MM)**

S.No.	component detail	Value	Part No.	Make
1	C6	C-0.1UF-35V-case A	T491A104K035AT	Kemet
2	C8	C-0.1UF-50V-X7R-0603 ceramic	MC0603B104M500CT	Multicomp
3	C11			
4	C12			
5	C13			
6	C14			
7	C15			
8	C16			
9	C4	C-100uF TANT 20V-CASE X	T491X107K020AT	Kemet
10	C1	C-10uF TANT 50V-CASE D	T491D106K050AT	Kemet
11	C2	C-1UF-35V-1206-A	T491A105K035AT	Kemet
12	C5			
13	C9			
14	C10			
15	C3	C-330uF 6v -CASE D	T491D337K006AT	Kemet
16	C7			
17	D1	DI-MMSD4148T1G	MMSD4148T1G	On semiconductor
18	D2			
19	D3			
20	U7	IC-CD40198-SO16	CD4019BM	texas instruments
21	U6	IC-CD4069-SO14	CD4069UBM	texas instruments
22	U3	IC-LM2903-SO8	LM2903D	texas instruments
23	U5			
24	U2	IC-LM7805-DPACK	NCV4274ADT50RKG	On semiconductor
25	U1	IC-LM78L12-TO92	L78L12ABZ	ST LIFE AUGMENTED
26	U4	IC-Microcontroller IC-STM8S207K6T3C-LQFP32	IC-STM8S207K6T3C-LQFP32	ST LIFE AUGMENTED
27	R33	R-1.1K-1206	ERJ8ENF1101V	Panasonic
28	R14			
29	R15			
30	R16			
31	R6			
32	R3			
33	R2	R-10K-1206	MCHP06W2F1002T5E	Multicomp
34	R4			
35	R9			
36	R10			
37	R17			
38	R18			
39	R34			
40	R35			



41	R23	R-10M-0603	MCHP03W8F1005T5E	Multicomp
42	R20	R-220K-0603	ERJ3GEYJ224V	Panasonic
43	R21			
44	R22			
45	R29			
46	R30			
47	R31			
48	R5	R-3.3K-1206	ERJT08J332V	Panasonic
49	R24			
50	R25			
51	R26			
52	R27			
53	R1			
54	R11	R-33K-0603	ERJ3GEYJ333V	panasonic
55	R12			
56	R13			
57	R28			
58	R7			
59	R8			
60	R19	R-470E-1206	ERJT08J471V	Panasonic
61	R32	R-47E-1206	ERJ8ENF47ROV	Panasonic
62	Q1	R-56k-1206	ERJ8ENF5602V	Panasonic
63	Q2	R-6.8K-1206	ERJ8ENF6801V	Panasonic
		SCR-2N5062-T092	2N5062G	On semiconductor

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JWM/ODC

## PART- I

[illegible]

**Signature of Inspector**

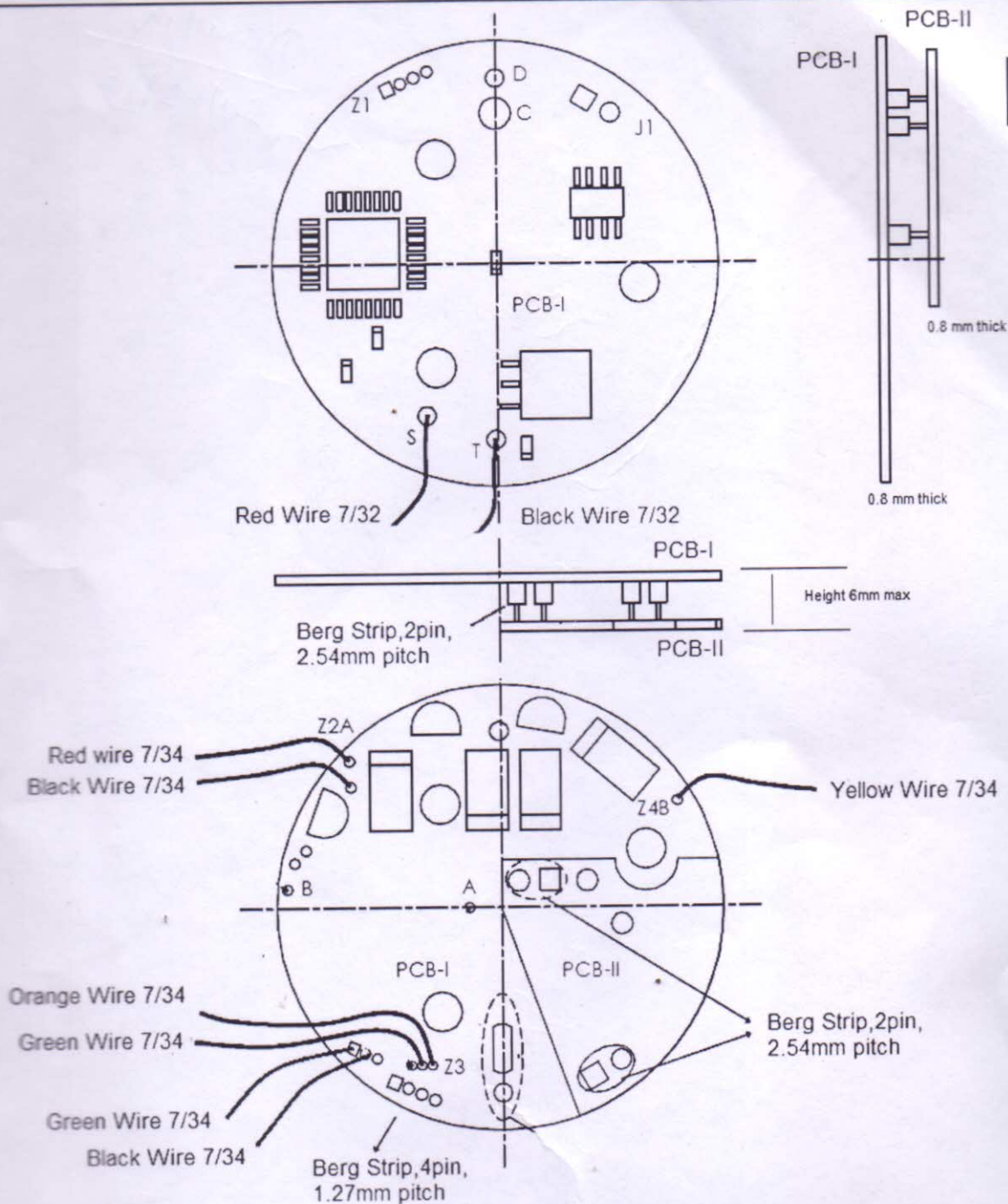
**Note:**

- 1) Test the PCB current by connecting 36V dc supply (with source current of 1A) to the wires connected at point S & T as shown drawing in part II.
- 2) 100 % visual inspection to be carried out to avoid rejection due to dry solder, solder jumpers, component missing, damaged tracks, **etc.**

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Dum/FS

Ukkalekew  
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**Note:-**

- (I) Min Dia. of PCB-I is 36.6mm and Max Dia. is 36.8mm
- (II) Thickness of Bare PCB is 0.8mm
- (III) Height of Assembly of PCB-I and PCB-II should be 6mm Max
- (IV) Material for Bare PCBs is FR-4 High -TG
- (V) Wires Specification : a) Tin plated copper wire Teflon insulated 7/34 (7 strands of 34 SWG) - 7 Nos  
b) Tin plated copper wire Teflon insulated 7/32 (7 strands of 32 SWG) - 2 Nos  
c) Colours of wires will be as mentioned in above diagram  
d) Wire length : 7/32 size wire will be of 9cm  $\pm$  0.5cm & 7/34 size wire will be of 11cm  $\pm$  0.5 cm  
e) Open end of wires should be of 0.5cm stripped.
- (VI) Berg strip Specification : a) Berg strip Male type, Gold plated, 2.54 mm pitch, 2 pins - 2Nos  
b) Berg strip Male type, Gold plated, 1.27 mm pitch, 4 pins - 1No
- (VII) This Drawing is only for Reference

*V. Kulkarni*

DCM / FS

*V. Kulkarni*

## **ANNEXURE-B**

ANNEXURE-B: CONSISTING OF GERBER FILE WILL BE PROVIDED TO FIRM ONLY  
AFTER PLACEMENT OF SUPPLY ORDER.