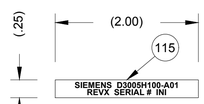
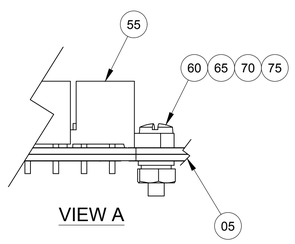
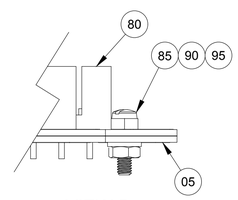


VIEW C



VIEW A



VIEW B

NOTES:

1. PCB THICKNESS IS 0.062 AND 4-LAYERS
2. CURRENT PCB D3005H100, ISS-A
3. DO NOT POPULATE C94, R23, TP7-16, TP18, TP23-31
4. ITEM 15 IS INSERTED INTO ITEM 20 AND THEN PLACED ON THE PCB
5. SEE VIEW A FOR ASSEMBLY
6. SEE VIEW B FOR ASSEMBLY
7. ITEM 110 TEXT TO BE FONT TYPE ARIAL BOLD, 6PT, CENTER JUSTIFIED, WITH TWO SPACES BETWEEN THE SEGMENTS AS SHOWN IN VIEW C. TRIM TO FIT.
8. TEST PER SPEC. ES-1944

PARTS LIST

REFERENCE DESIGNATORS	ITEM	QTY	DESCRIPTION	SIEMENS P/N	NOTES
	05	1	ETCHED PC BOARD	D3005H100-D01	1, 2
C40 C46 C52	10	3	CAP,POL,47UF,AL-EL,63V,20%,8X11	112008	
LD1	15	1	LED,DOME,UBRT,1.8V,10MA,RED,642NM,TH,50MCD@2MA	128327	
LD1	20	1	SPACER,LEDMNT,VERT,0.22,NYL,WHT	380043	4
PWR1-3	25	3	IC,D/C CONV,21.8MMX9.2MM,9-18V,+/-3.3,303MA	165048	
SW3-6	30	4	SWITCH,RTRY-ENCODER,MECH,12PPR,MOM,SPST	200050	
SW1-2	35	2	SPDT SWITCH ON/ON PC MOUNT	202036	
JS3	40	1	HDR,VERT,40P,2.54MM,2X20,TH,SQ	304098	
TPA1-8	45	8	TEST POINT,TERM,SLOTTED,PC MNT,TH,TIN	328002	
TP1-6 TP17 TP19-22	50	11	TEST POINT,TERM,TH	329004	
JP1	55	1	HDR,VERT,18P,5MM,3X6,TH,FRICTLK	344083	5
JP1	60	2	SCREW,PNH,PHL,4-40X3/8,SS-18/8	402034	5
JP1	65	2	NUT,HEX,4-40,SS-18/8	420000	5
JP1	70	2	WASHER,SPLK,#4,SS-18/8	441000	5
JP1	75	2	WASHER,FLAT,#4,N,SS-18/8	442015	5
JP2	80	1	HDR,VERT,6P,5MM,2X3,TH,FRICTLK	344115	6
JP2	85	2	SCREW,PNH,PHL,M2.5-0.45X8MM,SS-18/8	414006	6
JP2	90	2	NUT,M2.5,5MM,SS18-8	420030	6
JP2	95	2	WASHER,WAVESPRING,M2.5,SS-18/8	441050	6
JP3	100	1	HDR,VERT,2P,2.54MM,TH,SQ	344173	
JP4	105	1	CONN,VERT,4P,4.2MM,2X2,RCPT,TH	344175	
JS1-2	110	2	CONN,STR,1P,SMB,JACK,TH,SCRLK	344201	
LAB1	115	1	LABEL,THT,POLYEST,2"X0.25",WHT,GLOSSY	486068	7
R3 R5 R9 R12 R14 R18 R36 R38 R45 R47 R85-87	120	13	RES,0R,JMPR,1/4W,3.5A,1206	9100000001	
R63	125	1	RES,100R,THKF,1/4W,1%,1206,100PPM	9113171000	
R2 R4 R11 R13 R19-21 R26 R29 R31-33 R35 R42 R44 R52-53 R62 R88-92 R95-96	130	25	RES,1K,THKF,1/4W,1%,1206,100PPM	9113171001	
R8 R17 R22 R24 R40 R49 R51 R54-60 R64-84	135	35	RES,10K,THKF,1/4W,1%,1206,100PPM	9113171002	
R1	140	1	RES,1.5K,THKF,1/4W,1%,1206,100PPM	9113171501	
R6-7 R15-16	145	4	RES,2K,THKF,1/4W,1%,1206,100PPM	9113172001	
R39 R48	150	2	RES,332R,THKF,1/4W,1%,1206,100PPM	9113173320	
R93-94	155	2	RES,3.92K,THKF,1/4W,1%,1206,100PPM	9113173921	
R10 R34 R37 R43 R46 R61	160	6	RES,5.11K,THKF,1/4W,1%,1206,100PPM	9113175111	
R25	165	1	RES,51R,THKF,1/4W,1%,1206,100PPM	91131751R0	
R27-28 R30 R41 R50	170	5	RES,33R,THKF,1/4W,5%,1206,200PPM	91131833R0	
C5 C18 C34 C61 C74	175	5	CAP,10NF,CER,25V,10%,X7R,0805	9212147103	
C7 C20	180	2	CAP,47UF,CER,6.3V,10%,X5R,1206	9213143476	
C90	185	1	CAP,1UF,CER,25V,10%,X7R,1206	9213147105	
C6 C19 C31 C62 C75	190	5	CAP,100PF,CER,50V,10%,C0G,1206	9213149101	
C2-3 C8-11 C13 C15-16 C21-24 C26-27 C29-30 C33 C35-38 C58-59 C65-67 C69 C71-72 C78-80 C82-88 C91 C93 C95 C118-119 C122-123 C126	195	48	CAP,100NF,CER,50V,10%,X7R,1206	9213149104	
C43 C49 C55	200	3	CAP,4.7UF,CER,50V,10%,X5R,1206	9213149475	
C97-98 C100-101 C103-104 C106-107	205	8	CAP,10NF,CER,100V,10%,X7R,1206	921314B103	
C39 C42 C45 C48 C51 C54 C89 C99 C102 C105 C108 C113-116 C128	210	16	CAP,100NF,CER,100V,10%,X7R,1206	921314B104	
C41 C47 C53	215	3	CAP,47UF,CER,10V,20%,X5R,1206	9213164476	
C81 C92 C96 C111	220	4	CAP,10UF,CER,35V,20%,1206	9213168106	
C28 C32 C63 C68 C76 C109-110 C112	225	8	CAP,POL,47UF,TANT,25V,10%,2917,0.15R	9218247476	
C1 C4 C12 C14 C17 C25 C44 C50 C56-57 C60 C70 C73 C117 C120-121 C124-125 C127	230	19	CAP,POL,10UF,TANT,10V,20%,1411,3.5R	9219264106	
U26	235	1	DIODE,ZEN,LM4128,3.3V@20MA,0.5%,SOT-23	9321100007	
VR1-3	240	3	DIODE,XIENT,BIDIR,18V,29.2V,1UA,D0241AB	9352000002	
VR4-5	245	2	DIODE,XIENT,BIDIR,20V,32.4V,1UA,DO214AC	9352190006	
U9	250	1	IC,MULTIPLEXER,4X1,10-MSOP	9411100002	
U4 U8 U15-16 U18-19 U24	255	7	IC,OP-AMP,GP,4.5MHZ,8SOIC	9411108002	
U10	260	1	IC,OP-AMP,GP,12MHZ,8SOIC	9411108003	
U21-22	265	2	IC,DCDR,3-8 LINE,SOIC-16	9421100011	
Y1-3	270	3	OSC,XTLO,4.9152MHZ,CMOS,SMT	9461000003	
U11	275	1	IC,CLK BUFFER 1:4,160MHZ,8SOIC	9431000004	
U27	280	1	IC,MEM,EEPROM,32Kb,(4KX8),400NS,SOIC8	9432100006	
U25	285	1	IC,ADC,14BITS,100KSPS,SOT23	9433100001	
U2 U6	290	2	IC,DGTL POT,10BIT,NV,14TSSOP	9436000002	
U1 U5 U14 U17	295	4	IC,WAVEFORM GENERTR PROG,10-MSOP	9436000003	
U3 U7	300	2	IC,DGTL POT,10K,10BIT,NV,14TSSOP	9436000004	
U12-13	305	2	IC,DGTL,ISOLN,4-CHN,SPI,3.75KV,20SSOP	9451000004	
U23	310	1	IC,SENSOR CURRENT HALL,AC/DC,25A,SOIC-8	9462000002	
U20	315	1	IC,I/O EXPANDER SPI,8B,SOIC-18	9465000001	
JS4	320	1	CONN,RTANG,30P,0.5MM,1X30,FFC/FPC,SMT,TC	9631113030	

REV	PART NUMBER	DESCRIPTION
0	D3005H100-A01	PORTABLE TESTER PCB ASSEMBLY

REVISIONS

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.XX ± .02
.XXX ± .005
ANGLES ± .05°

THIRD ANGLE PROJECTION

JOB NO./ECO 7710H / 14838
DRAWN D.KIRIK DATE 07/02/2019
ENGINEER S.GUO
PROJECT MANAGER J.GELPI
APPROVED S.GUO DATE 07/10/2019

SIEMENS
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664 LINDEN AVE.
EAST PITTSBURGH, PA. 15112

TITLE
PORTABLE TESTER PCB ASSEMBLY
M-9

SCALE	SIZE	DRAWING NUMBER	SHEET	REV
NTS	D	D3005H100	1A OF 1A-C	0