





BOARD NAME: GPS3500
PART DESCRIPTION AND

** QTY. NAME VALUE NUMBER DEVICE DESIGNATIONS *****

2 .0012M .0012M 70330131 .0012M 5% 50vdc my T&A
C132, C232
4 .01CD .01CD 70320248 .01MF----20%---1000VDC--CD--T&A
C159, C160, C259, C260
10 .1 .1 70340100 .1MF----+80-20%--50VDC---AXL----T&R
C112, C147, C148, C162, C163, C212,
C247, C248, C262, C263
22 .12M .12M 70330133 .12M 5% 50vdc my T&A
C117, C122, C123, C124, C125, C126,
C127, C128, C129, C130, C131, C217,
C222, C223, C224, C225, C226, C227,
C228, C229, C230, C231
2 .POLY .POLY 70330103 .1 MFD 200V POLY CAP
C110, C210
4 .1R250C .1R250 70320307 .1MFD 250V CAP RADIAL
C100, C109, C200, C209
20 .33W7UP .33W7 70250163 .33-7W-5%-WW-STANDUP
R168, R169, R170, R171, R172, R173,
R174, R175, R176, R177, R268, R269,
R270, R271, R272, R273, R274, R275,
R276, R277
4 0R 0R 70240148 0 ohm--1/4W----T&R
R11, R17, R133, R233
2 1.05F63 1.05F63 70320275 1 MFD 10% 63 VDC SF R/W
C101, C201
2 1.5KW1 1.5KW1 70210007 1.5K--1W----5%---MO--T&R
R190, R290
7 100 100 70240010 100---1/4W--5%---CF--T&R
R26, R160, R161, R194, R260, R261, R294
2 1000R35 1000R35 70320186 1000MF----20%---35VDC--EL--T&A
C7, C8
2 1000R6.3 1000R6.3 70320306 1000uF---6.3V--20%---EL--T&A
C4, C5
10 100KP1 100KP1 70240151 100K--1/4W--1%---MF--T&R
R112, R121, R122, R123, R187, R212,
R221, R222, R223, R287
2 100R16 100R16 70320265 100MF-20%-16V-EL-T&A

C146, C246
1 100R63 100R63 70320264 100MF----20%---63VDC---EL--T&A
C9
18 10K 10K 70240025 10K---1/4W--5%---CF--T&R
R10, R14, R16, R25, R108, R178, R180,
R181, R185, R195, R197, R208, R278,
R280, R281, R285, R295, R297
4 10KP.1 10KP.1 70241110 10K---1/4W--1%---MF--T&R
R100, R101, R200, R201
2 10KP1 10KP1 70241050 10K---1/4W--1%---MF--T&R
R192, R292
4 10PF 10PF 70340050 10PF-----5%-----T/C---T&R
C155, C156, C255, C256
2 10R50L 10R50L 70320185 10MF----20%---50VDC---LL--T&A
C150, C250
4 10W2P2 10W2P2 70250083 10 OHM-2%-2W-MO-T/R
R162, R163, R262, R263
2 12KW3_2 12KW3_2 70250098 12K---3W---5%-METAL OXIDE--T&R
R139, R239
6 150MI 150MI 70330119 150PF 5% 500VDC MI R/W
C121, C134, C135, C221, C234, C235
2 15W5 15W5 70241097 15--5W--10%--WW--AXL
R126, R226
6 1K 1K 70240017 1K---1/4W--5%---CF--T&R
R5, R21, R131, R132, R233, R232
4 1KP1 1KP1 70241077 1K---1/4W--1%---CF--T&R
R158, R159, R258, R259
28 1N4007 1N4007 70464007 1N4007 1KV, 1A, SILICON DIODE
D24, D25, D106, D112, D113, D116, D117,
D137, D142, D143, D144, D146, D147,
D148, D153, D206, D212, D213, D216,
D217, D237, D242, D243, D244, D246,
D247, D248, D253
28 1N4148 4148 70464148 1N4148 75V 10MA SILICON DIODE
D3, D4, D100, D101, D105, D120, D121,
D141, D150, D151, D152, D156, D157,
D158, D159, D200, D201, D205, D220,
D221, D241, D250, D251, D252, D256,

D257, D258, D259
2 1N747 1N747 70400747 1N747A 3.6V 5% ZENER T&R
Z1, Z2
4 1N751A 1N751A 70400751 1N751A 5.1V, .4W, 5% ZENER DIODE
Z4, Z5, Z101, Z201
2 1N853 1N853 70400823 6.2V TEMP COMP ZENER T&R
Z100, Z200
2 1R/BRKT 70250164 70250164 1 OHM, 10W RES, W/BACKET
R128, R228
12 1SS142 1SS142 70400142 1ssl42 250v SILICON DIODE
D103, D104, D107, D108, D110, D111,
D203, D204, D207, D208, D210, D211
22 2.2K 2.2K 70240020 2.2K--1/4W--5%---CF--T&R
R105, R114, R146, R147, R148, R149,
R151, R156, R157, R183, R184, R205,
R214, R246, R247, R248, R249, R251,
R256, R257, R283, R284
4 2.2R50 2.2R50 70320180 2.2MF-----20%---50VDC---EL--T&A
C1, C2, C149, C249
6 2.2T25 2.2T25 70340087 2.2 MF, 10%, 25VDC, TANTALUM T&A
C22, C23, C115, C161, C215, C261
8 2.2U100P 2.2U100P 70320338 2.2UF-100V-POLY-RADIAL CAP
C142, C143, C144, C145, C242, C243,
C244, C245
2 2.7KW1 2.7KW1 70210016 2.7K--1W---5%---MO--T&R
R110, R210
2 200TRIM 200TRIM 71190137 200 OHM TRIM POT
VR101, VR201
5 20KP.1 20KP.1 70241116 20K--1/4W--1%---MF--T&R
R102, R103, R202, R203, R204
2 220 220 70240058 220---1/4W--5%---CF--T&R
R188, R288
6 220K 220K 70240036 220K--1/4W--5%---CF--T&R
R7, R15, R196, R199, R296, R299
4 22K 22K 70240029 22K---1/4W--5%---CF--T&R
R106, R125, R206, R225
2 22R50 22R50 70320181 22MF-----20%---50VDC---EL--T&A
C151, C251

2	22W1	22W1	70210001	22-1W-5%-MO-T&R	R138, R238
					2 71466258 71466258 PCB CONN, 4 POLE SPEAKON (NEUTRIK)
					J104, J204
2	270	270	70240013	270-1/4W-5%-CF-T&R	3 78L15 78L15 70400015 78L15ACP +15V 100MA REG
					U1, U105, U205
4	27PF	27PF	70340066	27PF-10%-50VDC-T/C-T&R	3 79L15 79L15 70400016 MC79L15 -15V VR
					U2, U106, U206
8	2N5550	5550	70465550	2N5550 TO-92 NPN TRANS T&A	1 8PRC8T 70600111 70600111 8C PRE-TIN .100 CTR 8" WIRE TRAP JMPR CBL
					W1
2	2PHDRR	73719107	73719107	2 PIN .156" HEADER VERTICAL/LOCKING	1 BR81D BR81D 70400081 100 VOLT-2A-BRIDGE RECT.
					D1
2	2PHVL	2PHVL	73717037	2 PIN HEADER VERT. W/LOCK	2 CLIP1785 70901785 70901785 screw term, 6-32 - pcb mnt.
					BRKT1, BRKT2
24	2SA1302	2SA1302	70458200	200V PLASTIC PNP POWER TRANSISTOR	2 FXLR6231 71466231 71466231 COMB COAXL FML XLR-1/4JK
					J100, J200
					4 HER103 HER103 70400103 HER-103 HI EFF RECT DIODE
					D114, D115, D214, D215
					4 HER305 HER305 70400305 400V 3A HIGH EFF DIODE
					D132, D133, D232, D233
4	2SA1837V	2SA1837V	70401837	PNP TRAN TO-220 230V 1A VERT	2 KBU6J 70400605 70400605 6A, 600V, INLINE DIODE BRIDGE RECTIFIER
					D135, D235
24	2SC3281	2SC3281	70468200	200V PLASTIC NPN POWER TRANSISTOR	2 LEDRTI LEDRTI 70450034 SLR34VR3 GP RED LED T1 ROUND
					LED3, LED4
					2 LM317HSV LM317HSV 70400317 LM317T W/VERTICAL HEATSINK
					U102, U202
2	2SC3792	2SC3792	70403792	HIGH REVERSE BREAKDOWN NPN TRANSISTOR	2 LM324 LM324 70400324 LM324 QUAD OP AMP
					U101, U201
4	2SC4793V	2SC4793V	70404793	NPN TRAN TO-220 230V 1A VERT	2 LM35DT LM35DT 70410035 CENTIGRADE TEMP SENSOR
					U103, U203
12	3186SCRW	3186SCRW	BENNETT	1.4" SCREW MT. CAP	2 MAC97 MAC97 70460097 MAC97-6 400V .6A TO-92 TRIAC T&A
					TR1, TR2
8	330W2R	330W2R	70250074	330-RSS2W-5%-MO-AXL	4 MPSA13 A13 70460013 MPS-A13 NPN DARLINGTON TRANS T&A
					Q143, Q145, Q243, Q245
2	33KW1	33KW1	70210027	33K-1W-5%-MO-T&R	4 MPSA63 A63 70400063 MPS-A63 PNP DARLINGTON TRANS
					Q140, Q144, Q240, Q244
2	392P1	392P1	70241044	392-1/4W-1%-MF-AXL	24 MUR420 MUR420 70420420 MUR-420 FAST RECOVERY DIODE
2	3SRHDRU	73717013	73717013	3 PIN S/R HDR .100 W/LOCK -UP	
					R9, R24
					J102, J202
2	3SRHRAD	73719080	73719080	3 PIN S/R R/A HDR .100 W/LOCK -DOWN	
					J103, J203
2	3UHI0GA	3UHI0GA	70500023	3 UHINDUCTOR 10 gauge leads	
					L100, L200
16	4.99KPI	4.99KPI	70241060	4.99K-1/4W-1%-MF-T&R	
					R12, R18, R107, R109, R111, R113, R120,
					R155, R193, R207, R209, R211, R213,
					R220, R255, R293
2	442P1	442P1	70240084	442 OHM 1% 1/4W MF T&R	
					R8, R23
3	47	47	70240008	47-1/4W-5%-CF-T&R	
					R20, R115, R215
2	470	470	70240015	470-1/4W-5%-CF-T&R	
					R137, R237
2	470K	470K	70240038	470K-1/4W-5%-CF-T&R	
					R13, R19
2	470R6.3	470R6.3	70320183	470MF-20%-6.3VDC-EL-T&A	
					C111, C211
4	47K	47K	70240031	47K-1/4W-5%-CF-T&R	
					R189, R198, R289, R298
2	47V50	47V50	70320182	47MF-20%-50VDC-LL-T&A	
					C102, C202
2	47W1	47W1	70210011	47-1W-5%-MO-T&R	
					R164, R264
2	4KW5	4KW5	70250050	4K-5W-10%-WW-AXL	
					R127, R227
1	4PHDR	73719089	73719089	4 PIN .156" HEADER VERTICAL/LOCKING	
					J8
2	5.23KPI	5.23KPI	70241071	5.23K-1/4W-1%-MF-T&R	
					R6, R22
4	5532	5532	70405532	NE5532FE DUAL LO-NOISE	
					U100, U104, U200, U204
2	604P1	604P1	70240155	604-1/4W-1%-MF-T&R	
2	22W1	22W1	70210001	22-1W-5%-MO-T&R	
					R166, R266
2	270	270	70240013	270-1/4W-5%-CF-T&R	
					R140, R240
4	27PF	27PF	70340066	27PF-10%-50VDC-T/C-T&R	
					C104, C157, C204, C257
8	2N5550	5550	70465550	2N5550 TO-92 NPN TRANS T&A	
					Q107, Q141, Q142, Q146, Q207, Q241,
					Q242, Q246
2	2PHDRR	73719107	73719107	2 PIN .156" HEADER VERTICAL/LOCKING	
					J1, J2
2	2PHVL	2PHVL	73717037	2 PIN HEADER VERT. W/LOCK	
					J105, J205
24	2SA1302	2SA1302	70458200	200V PLASTIC PNP POWER TRANSISTOR	
					Q111, Q113, Q115, Q117, Q119, Q121,
					Q125, Q127, Q129, Q131, Q133, Q135,
					Q211, Q213, Q215, Q217, Q219, Q221,
					Q225, Q227, Q229, Q231, Q233, Q235
4	2SA1837V	2SA1837V	70401837	PNP TRAN TO-220 230V 1A VERT	
					Q109, Q123, Q209, Q223
24	2SC3281	2SC3281	70468200	200V PLASTIC NPN POWER TRANSISTOR	
					Q110, Q112, Q114, Q116, Q118, Q120,
					Q124, Q126, Q128, Q130, Q132, Q134,
					Q210, Q212, Q214, Q216, Q218, Q220,
					Q224, Q226, Q228, Q230, Q232, Q234
2	2SC3792	2SC3792	70403792	HIGH REVERSE BREAKDOWN NPN TRANSISTOR	
					Q100, Q200
4	2SC4793V	2SC4793V	70404793	NPN TRAN TO-220 230V 1A VERT	
					Q108, Q122, Q208, Q222
12	3186SCRW	3186SCRW	BENNETT	1.4" SCREW MT. CAP	
					C136, C137, C138, C139, C140, C141,
					C236, C237, C238, C239, C240, C241
8	330W2R	330W2R	70250074	330-RSS2W-5%-MO-AXL	
					R116, R117, R118, R119, R216, R217,
					R218, R219
2	33KW1	33KW1	70210027	33K-1W-5%-MO-T&R	
					R134, R234
2	392P1	392P1	70241044	392-1/4W-1%-MF-AXL	

P104

1 WTCONN8 73716717 73716717 8 COND. WIRE TRAP CONN. .098" SPACING

J7

D118, D119, D122, D123, D124, D125,
D126, D127, D128, D129, D130, D131,
D218, D219, D222, D223, D224, D225,
D226, D227, D228, D229, D230, D231

1 NE5517AN NE5517AN 70405517 DUAL OTA

U3

2 PC6PIN 73714951 73714951 6 PIN POWER CONNECTOR

J17, J18

2 POT806 71190806 71190806 2KB--STD--9MM--D SHAFT

VR100, VR200

2 RALEDGN1 RALEDGN1 70450035 SLR34VR3 GP GREEN LED T1

LED1, LED2

2 RALEDYL1 RALEDYL1 70450036 LED YELLOW T1 (SMALL ROUND)

LED5, LED6

2 RASL6223 71466223 71466223 jack stereo r/a 1/4" 6.5mm

J101, J201

1 REL24V REL24V 71322388 24VDC SPST 30 AMP RELAY

RLI

2 REL24VF7 REL24VF7 71322387 SPST 70A, 24V RELAY

RL100, RL200

2 RUE185 RUE185 70400185 1.85 AMP, 3.7 AMP TRIP POLY SWITCH T&A

R27, R28

2 SDB4006 70404006 70404006 40A, 600V INLINE BRIDGE RECTIFIER

D134, D234

2 SG328 SG328 70250123 1 OHM, 30A THERMISTOR

RI, R2

2 SJE2153V SJE2153V 70402153 80V-3A-T0220 PNP DARLINGTON

Q105, Q205

6 SPD 73716194 73716194 .250 PC MNT SPADE .093 PCB

LUG1, LUG2, LUG4, LUG5, LUG7, LUG14

2 SW2342 SW2342 71322342 SWITCH, 4PDT P/P R/A MINI

SW1, SW2

8 WJ10 WJ10 73713820 WR.-TO-BD. CRIMP TERM - 10GA.

P100, P101, P102, P103, P200, P201,
P202, P203

1 WJ8BK4SP WJ8BK4SP 91090271 BK-18G-4"-CPT-250SPD/RA