



NATIONAL OPTICAL
ASTRONOMY
OBSERVATORY

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MONSOON
Bill of Materials
6 Slot Chassis FHiRE

Dwg No.: MNSN-EL-02-0006 Rev: --
Next Assembly:

LTR	DESCRIPTION	ECR	DATE	BY	APPRVD
--	initial		9-Feb-06	dms	

ITEM	QTY	Part/Dwg Number	MFR	Serial No.	Description	COMMENT
1	1	20827 091	Schroff		6U CPCI Subrack Chassis, Kit	
2	1	10850 036	Schroff		4U 63 HP ProPac Case	
3	2	30818 094	Schroff		63 HP Rails	
4	1	20850 143	Schroff		ProPac Front Cover	
5	1	20850 059	Schroff		Propac Vented Rear Cover	
6	36	20817 501	Schroff		Keying Plugs	
7	1	MNSN-AD-02-0005	NOAO		SDN, Board Keying Assignment	REFERENCE
8	4	21100 276	Schroff		Locking Screw, For Threaded Inserts	
9	12	21100 148	Schroff		M2.5 x 12mm Cheese Head Screw, For Backplane	
10	4	21100 575	Schroff		M5 x 12mm Socket head Screw, Rail to Case	
11	8	21100 146	Schroff		M2.5 x 6mm Cheese Head Screw, Chassis to Rail	
12	8	21100 142	Schroff		M2.5 Shake Proof Washers, Chassis to Rail	
13	1	MNSN-	NOAO		Horizontal Rail Modification Drawing	
14	1	MNSN-	NOAO		Side Panel Modification Drawing	
15	1	23006 866	Schroff		6U 6 Slot CPCI Backplane, Right Justified	
16	1	MNSN-EL-05-0005	NOAO		Supply Power Wiring, Schematic	REFERENCE
17	2	KDE0505PHB2	Sunon		Fan, 5VDC 52mm x 15mm	
18	1	MNSN-	NOAO		Fan Mounting Bracket	
19	3	92095A190	McMaster-Carr		4M x 10 mm Button Socket Cap SS, Fan Mounting Bracket Screw	
20	8	92949A151	McMaster-Carr		6/32 x 3/4" Button Socket Cap SS, Fan Mounting Screw	
21	11	92949A146	McMaster-Carr		6/32 x 3/8" Button Socket Cap SS, Terminal Block Mounting Screw	
22	2	36152	AMP/Tyco		#6 Ring Terminal Red	
23	1	GOA18-22PNE	Burndy		Con, circ 22 pos pins, flanged size 18	
24	22	RM16M23D28	Burndy		Contacts, crimp pins 16 awg	
25	1	KPSE00A14-19P	Cannon		Con, circ 19 pos pins, flanged size 14	
26	1	FSSM7-1401	Fastener Specialty		Nut plate, for size 14 flanged circ connector	
27	1	FSSM7-1801	Fastener Specialty		Nut Plate, for size 18 flanged circ connector	
28	8				4-40 x 3/8" button phillips screw, circ con mounting	
29	A/R	046310	Weidmuller		16 Awg ferrule	
30	1	EDZ1550/16	On Shore Technology		TERM BLOCK PLUG 3.81MM 16POS	
31	1	102387-4	AMP/Tyco		CONN HOUSING 20POS .100 POL DUAL	
32	A/R	87046-3	AMP/Tyco		CONN SOCKET 20-24AWG GOLD CRIMP	
33	A/R	TYE-19/32-BLK	Pacer		20 AWG Wire, Teflon Insulated Black	
34	A/R	TYE-22/19-RED	Pacer		22 AWG Wire, Teflon Insulated Red	
35	A/R	TYE-22/19-WHT/RED	Pacer		22 AWG Wire, Teflon Insulated White/red	
36	A/R	TYE-22/19-ORG	Pacer		22 AWG Wire, Teflon Insulated Orange	
37	A/R	TYE-22/19-WHT/ORG	Pacer		22 AWG Wire, Teflon Insulated White/Orange	
38	A/R	TYE-22/19-YEL	Pacer		22 AWG Wire, Teflon Insulated Yellow	

ITEM	QTY	Part/Dwg Number	MFR	Serial No.	Description	COMMENT
39	A/R	TYE-22/19-VIO	Pacer		22 AWG Wire, Teflon Insulated Violet	
40	A/R	TYE-22/19-GRY	Pacer		22 AWG Wire, Teflon Insulated Gray	
41	A/R	TYE-22/19-WHT/GRY	Pacer		22 AWG Wire, Teflon Insulated White/Gray	
42	A/R	TYE-22/19-GRN	Pacer		22 AWG Wire, Teflon Insulated Green	
43	A/R	TYE-16/19-BLK	Pacer		16 AWG Wire, Teflon Insulated Black	
44	A/R	TYE-16/19-RED	Pacer		16 AWG Wire, Teflon Insulated Red	
45	A/R	TYE-16/19-WHT/RED	Pacer		16 AWG Wire, Teflon Insulated White/Red	
46	A/R	TYE-16/19-ORG	Pacer		16 AWG Wire, Teflon Insulated Orange	
47	A/R	TYE-16/19-WHT/ORG	Pacer		16 AWG Wire, Teflon Insulated White/Orange	
48	A/R	TYE-16/19-YEL	Pacer		16 AWG Wire, Teflon Insulated Yellow	
49	A/R	TYE-16/19-VIO	Pacer		16 AWG Wire, Teflon Insulated Violet	
50	A/R	TYE-16/19-GRY	Pacer		16 AWG Wire, Teflon Insulated Gray	
51	A/R	TYE-16/19-WHT/GRY	Pacer		16 AWG Wire, Teflon Insulated White/Gray	
52	A/R	FIT 221 3/32	Alpha		3/32" Heat Shrink Tube	
53	1	TPS75933KC	Texas Instruments		IC 3.3V LDO VOLTAGE REG TO-220-5 7.5 Amp	
54	1	3223-07FR-54	Berquist		TO-220 Sil-Pad insulator	
55	1	RPE113Z5U105M-5	Murata Erie		Cap, Cerc radial 1.0 uF 50V	
56	1	516D476M035	Sprague		Cap, Electrolytic radial 47 uF 35V	
57	2	SR205C104KAA	AVX		Cap, Cerc radial 0.1uF 100V	
58	1	MNSN-EL-02-0003	NOAO		Assembly Drawing	REFERENCE
59						
60						
61						

Part Number 20827-091**6U CPCI SUBRACK KIT****NOTES:**

1. Cut horizontal 84 HP rails to 135mm.
2. Modify 1 side panel for power supply wiring.

Part number	Description	Quantity Per
34579031	SIDE PANEL 6UX275 (160/	2
34560384	HOR RAIL 84 HP FRT TYP	4
34560584	REAR RAIL TYP H-ST 84HP	2
34579040	MIDDLE RAIL W/ NOTCH	2
34561384	THRD INSERT M2.5X84HP E	6
30845253	PERF ALIGNMENT STRIP 84	4
64560011	SCREW TORX PANHD M4X14	28
34560497	MNTG ANGLE 6U W/O HNDL	2
60817061	INSULATING STRIP 84HP	2
64560090	GUIDE RAIL 160MM GRAY I	14
64560089	GUIDE RAIL 160MM RED IE	2
64560086	GUIDE RAIL 80MM GRAY IE	14
64560085	GUIDE RAIL 80MM RED IEE	2
D20827091	INSTR SHEET	1
60897161	BOX CORR 17X10.5X1.5	1

