

e-Box Chassis Parts Stress Analysis			32-04010.04																				
Rev 01			ECO 32-126				5/10/06																
Schematic: 32-03006 Rev 01																							
<b>Connectors</b>			<b>Working Voltage (Vrms)</b>				<b>Contact Current (A)</b>				<b>Ambient Temperature (C)</b>												
Quantity	Reference	Part Description	Procurement Info	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin				
1	J1	9-pin Male D-Sub	S311-409	300	225	35	543%	7.5	7.5	1.8	317%	125	100	50	100%								
1	J2	9-pin Female D-Sub	S311-409	300	225	35	543%	7.5	7.5	1.8	317%	125	100	50	100%								
2	J3, J4	1553 Triax	Trompeter BJS150	400	300	20	1400%	n/a	n/a	n/a	n/a	200	175	50	250%								
<b>Microcircuits -- Analog</b>			<b>Voltage (volts)</b>				<b>Power (mW)</b>				<b>Junction Temperature (C)</b>				<b>Output Current (ma)</b>				<b>Radiation (Krad)</b>				
Quantity	Reference	Part Description	Procurement Info	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin
4	U4, U5	Temperature Monitor	AD590	44	35.2	10	252%	n/a	n/a	n/a	n/a	150	110	50	120%	n/a	n/a	n/a	n/a	100	14	5	160%
<b>Microcircuits -- Hybrid</b>			<b>Voltage (volts)</b>				<b>Output Power (W)</b>				<b>Case Temperature (C)</b>				<b>Output Current (ma)</b>				<b>Radiation (Krad)</b>				
Quantity	Reference	Part Description	Procurement Info	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin	Spec	Derated	App.	Margin
1	U1	EMI Filter	IR AFH461	80	64	35	83%	n/a	n/a	n/a	n/a	125	85	50	70%	3000	2400	430	458%	n/a	n/a	n/a	n/a
1	U2	DC/DC 5 watt converter	IR ANA2805S	50	40	35	14%	5	3.75	3.2	17%	125	85	50	70%	1000	800	640	25%	25	4	0.6	495%
1	U3	DC/DC 15 watt converter	IR ANF2805D	50	40	35	14%	12	9	3.1	190%	125	85	50	70%	900	720	367	96%	30	4	0.6	614%