

Rev.	ECO	Description	Author	Approved	Date
01	32-111	Initial Release	RFGoeke		4/3/06

CRaTER

Electrical Grounding Diagram

Drawing Number: **32-03001.01**

Revision 01

1. Description

The input 28VDC power from the spacecraft is applied to two DC-DC power converters, one providing +5VDC to the digital logic and detector bias supply, and one providing ± 5 VDC to the analog circuitry. The DC-DC converters provide isolation between primary and secondary voltages.

The secondary returns from both converters are mounted adjacent to each other on the bulkhead separating the digital from the analog electronics section of the electronics box; their secondary returns are connected to chassis at that point. The electronics box chassis is electrically connected to the spacecraft structure *via* its six mounting feet.

The telescope chassis is electrically isolated from both spacecraft structure and the electronics box chassis. It is connected to the analog voltage return within the telescope assembly.

2. Grounding Diagram

