HV-Reed-Switch-based Receiver RF Protection +12 VDC 2K2 Ω **Event Detect Line** Event Detect Line 2K2 Ω (Active Low) (Active Low) **2K2** Ω $2K2 \Omega$ **Key Detect Line** OPT-1 OPT-2 OPT-3 (Active Low) $2K2 \Omega$ 560 Ω 560 Ω PTT Detect Line 560 Ω (Active Low) RY3 RY4 ** NEEDS P/U OPT-4 OPT-5 RY2 RY5 RY1 **RF INPUT** 560 Ω To ANT 560 Ω RY2 n/o **RF OUTPUT** To Equipment 200pf 5kV 1N270 UNPROTECTED **RF OUTPUT** $10R0\Omega$ RY5 n/o $1M0\Omega$ **2K2** Ω **Key Activation** RY1 Q1 1N270 Line - Active Low n/c MPF102 0.1ufd RY3 n/o OPT-6 560 Ω NOTES: 1) Philosophy for FAIL-SAFE operation is such that upon EVENT-DETECT or POWER-FAIL, the PAGE NR: 1 of 1 TITLE: primary relay contact (RY2-A n/o) will ultimately be OPEN. 2) Upon EVENT-DETECT (active LOW) of any sort (including-but not limited to: Key-Down; RF-Detect; Receiver Protection Brick n/a VERSION: 1.0 or PTT-Pressed) Relay 2 will be DE-activated, opening the RF thru-put; and any associated relays will similarly be DE-activated. HR\RF Circuits RCVR Protection Brick 2000 09 11 3) The EVENT-DETECT LOW will be passed along on the EVENT-DETECT OUTPUT line as a LOW. N4XY E. T. TANTON