

TABLE 6-4 RECEIVER CHAIN WEIGHT, SIZE AND DC POWER BUDGET ESTIMATES

| UNITS                                      | WEIGHT |      | SI ZE                        |                      | DC POWER<br>(watts) |
|--|--------|------|------------------------------|----------------------|---------------------|
|  | lbs    | kg   | (cu in)                      | (cu cm)              |                     |
| RF Input Multiplexer                       | 7.5    | 3.4  | 125                          | 2000                 | 0                   |
| RF/Sub-Band D/C                            | 32.    | 14.6 | 500                          | 8200                 | 42                  |
| RF Switching                               | 3.5    | 1.6  | 60                           | 1000                 | 4                   |
| Sub-Band Multiplexer                       | 5.     | 3.3  | 85                           | 1400                 | 0                   |
| Sub-Band/IF D/C                            | 21.    | 9.5  | 350                          | 5700                 | 28                  |
| IF Switching                               | 5.5    | 2.5  | 90                           | 1500                 | 6                   |
| SAW Mux Channelizer                        | 6      | 2.7  | 100                          | 1600                 | 12                  |
| IF/70 MHz D/C                              | 0.5    | 0.2  | 8                            | 130                  | 1                   |
| Compressive Receiver                       | 4      | 1.8  | 65                           | 1000                 | 10                  |
| Output Data Processing                     | 15.    | 6.8  | 250                          | 4000                 | 45                  |
| Heaters for LO's and for Final Stage SAW's | -      | -    | -                            | -                    | 20                  |
| TOTALS                                     | 102    | 46.4 | 1633<br>(Approx.<br>1 cu ft) | 26530<br>(27 litres) | 168                 |