

## B750 Series

### Ku-band Tracking Receiver

INPUT SPECIFICATION	Options
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|-----------------------------------|-------------------------------------|
| 1. Input Range:                   | 10.7 – 12.75GHz (check model table) |
| 2. Input connector:               | N-type                              |
| 3. Impedance:                     | 50Ω                                 |
| 4. Input return loss:             | 15dB typical                        |
| 5. Nominal beacon input level:    | -80dBm                              |
| 6. Maximum beacon input level:    | -70dBm                              |
| 7. Maximum aggregate power level: | -30dBm                              |

OUTPUT SPECIFICATION
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|-----------------------|---|------------------|
| 8. Range:             | ±10V DC   | 0V to 10V DC (*) |
| 9. Scale:             | Logarithmic   |                  |
| 10. Connector:        | BNC (also interface connector)  |                  |
| 11. Impedance:        | 0Ω (ideal voltage source, maximum current 5mA)                        |                  |
| 12. Adjustment range: | Output adjustable to 0V for input power levels from -70dBm to -110dBm |                  |
| 13. Display:          | 16-character alphanumeric LCD   |                  |
| dB mode:              | -199.9 to +199.9  |                  |
| Volts mode:           | -9.99 to +9.99  |                  |

TRANSFER CHARACTERISTICS
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|-----------------------------------|---------------------------------|---------------------|
| 14. In/out characteristic:        | Log conformal                   |                     |
| 15. In/out voltage slope:         | 2dB/V                           | 0.5 to 4dB/V (*)    |
| 16. Post-detection time constant: | 100ms                           | 10ms to 10s (*)     |
| 17. DC voltage adjust:            | To 0V for -70dBm to -110dBm     |                     |
| 18. Level meter adjust            | To ±199.9 for -70dBm to -110dBm |                     |
| 19. Step size:                    | 10kHz                           |                     |
| 20. Automatic search:             | ±200kHz                         | ±75kHz to ±1MHz (*) |

TRACKING PARAMETERS
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|--|---------|
| 21. PLL noise bandwidth:                 | 2kHz    |
| 22. Threshold for reacquisition of lock: | <43dBHz |
| 23. Average search time:                 | <1s     |

MISCELLANEOUS
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|-------------------------------|---|
| 24. Power supply:             | 115V/230V ±10%<br>50/60Hz ±10%, 30VA  |
| 25. Mechanical:               | 1U 19" frame, 400mm   |
| 26. Temperature:              | Operating: 0° to 50°C<br>Storage: -40° to 85°C  |
| 27. Relative humidity:        | Operating: 0 to 90%<br>Storage: 0 to 95%  |
| 28. Summary alarm:            | NO and NC dry relay contacts via rear mounted connector   |
| 29. Summary alarm indication: | Through front panel LED and remote interface  |
| 30. Remote control:           | <ul style="list-style-type: none"> <li>• RS232 or RS422/RS485, connector D-type 9P F</li> <li>• Serial emulation over TCP/IP, connector RJ45</li> <li>• SNMP and HTTP over TCP/IP Ethernet, connector RJ45</li> </ul> Control: beacon frequency<br>Monitor: beacon frequency, output voltage and alarm status |

(\*) These parameters are not field adjustable. To be specified at time of order.

#### MODEL TABLE

Input band	PLL 300Hz, threshold <35dBHz <sup>(1)</sup>	PLL 2kHz, threshold <43dBHz <sup>(2)</sup>
10.94 – 11.7GHz	B750	B760
11.7 – 12.25GHz	B751	B761
12.25 – 12.75GHz	B752	B762
10.7 – 12.75GHz	B753	B763
10.7 – 11.7GHz	B754	B764
11.7 – 12.75GHz	B755	B765

<sup>(1)</sup> Models recommended for antenna and propagation experiments.

<sup>(2)</sup> Models recommended for antenna tracking.