

## B550 Series

### C-band Tracking Receiver

INPUT SPECIFICATION		Options
1. Input Range:	3.4 – 4.8GHz (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		
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		
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		
21. PLL noise bandwidth:	2kHz	
22. Threshold for reacquisition of lock:	<43dBHz	
23. Average search time:	<1s	
MISCELLANEOUS		
24. Power supply:	115V/230V ±10%	
	50/60Hz ±10%, 30VA	
25. Mechanical:	1U 19" frame, 400mm	
26. Temperature:	Operating: 0° to 50°C	
	Storage: -40° to 85°C	
27. Relative humidity:	Operating: 0 to 90%	
	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	
	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>
3.625 – 4.2GHz	B550	B555
3.4 – 4.2GHz	B551	B556
4.0 – 4.8GHz	B552	B557

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

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