

B150 Series 70MHz Tracking Receiver

INPUT SPECIFICATION		Options
1. Input Range:	70MHz \pm 200kHz	
2. Input connector:	N-type	
3. Impedance:	50 Ω	
4. Input return loss:	15dB typical	
5. Nominal beacon input level:	-30dBm	
6. Maximum beacon input level:	-20dBm	
7. Maximum aggregate power level:	0dBm	
OUTPUT SPECIFICATION		
8. Range:	\pm 10V DC	0V to 10V DC (*)
9. Scale:	Logarithmic	
10. Connector:	BNC (also interface connector)	
11. Impedance:	0 Ω (ideal voltage source, maximum current 5mA)	
12. Adjustment range:	Output adjustable to 0V for input power levels from -20dBm to -60dBm	
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 -20dBm to -60dBm	
18. Level meter adjust:	To \pm 199.9 for -20dBm to -60dBm	
19. Step size:	10kHz	
20. Automatic search:	\pm 200kHz	\pm 75kHz to \pm 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 \pm 10% 50/60Hz \pm 10%, 30VA	
25. Mechanical:	1U 19" frame, 400mm	
26. Temperature:	Operating: 0 $^{\circ}$ to 50 $^{\circ}$ C Storage: -40 $^{\circ}$ to 85 $^{\circ}$ 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"> ● RS232 or RS422/RS485, connector D-type 9P F ● Serial emulation over TCP/IP, connector RJ45 ● SNMP and HTTP over TCP/IP Ethernet, connector RJ45 	
	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 2kHz, threshold $<$ 43dBHz ⁽¹⁾	PLL 2kHz, BPSK option threshold $<$ 43dBHz ⁽²⁾
70MHz \pm 200kHz	B155	B155A

⁽¹⁾ Models recommended for antenna tracking.

⁽²⁾ Models for antenna tracking of NATO / Skynet / DSCS military beacons.