

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° 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"> • 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.