

B550 Series

C-band Tracking Receiver

INI	PUT SPECIFICATIO	ON		Options		
1.	Input Range:		3.4 – 4.8GHz (check model table)			
2.	Input connector:		N-type			
3.	Impedance:		50Ω	$75\Omega^{(*)}$		
4.	Input return loss:		15dB typical			
5.	Nominal beacon input level:		-80dBm			
6.	Maximum beacon in	put 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 n	node:	-9.99 to +9.99			
TRANSFER CHARACTERISTICS						
14.	In/out characteristic:		Log conformal			
15.	. In/out voltage slope:		2dB/V	0.5 to $4 \mathrm{dB/V}^{(*)}$		
16.	Post-detection time constant:		100ms	10ms to $10 \text{s}^{(*)}$		
17.	DC voltage adjust:		To 0V for -70dBm to -110dBm			
18.	Level meter adjust		To ± 199.9 for -70 dBm to -110 dBm			
19.	Step size:		10kHz			
20.	. Automatic search:		±200kHz	± 75 kHz to ± 1 MHz ^(*)		
TRACKING PARAMETERS						
21.	. PLL noise bandwidth:		300Hz or 2kHz (check model table)			
22.	. Threshold for reacquisition of lock:		<35dBHz or 43dBHz (check model table)			
23.	3. Average search time:		<1s for PLL B/W of 2kHz			
			<90s for PLL B/W of 300Hz			
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:		Via RS232/RS485 serial interface			
			Control: beacon frequency			
			Monitor: beacon frequency, output voltage alarm status			

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

MODEL TABLE					
Input band	PLL 300Hz, threshold <35dBHz ⁽¹⁾	PLL 2kHz, threshold <43dBHz ⁽²⁾			
3.625 – 4.2GHz	B550	B555			
3.4 – 4.2GHz	B551	B556			
4.0 – 4.8GHz	B552	B557			

⁽¹⁾ Models recommended for antenna and propagation experiments.
⁽²⁾ Models recommended for antenna tracking.