

## T530 series C to L-band Test Loop Translators

Input Specification	Options	
1. Frequency range:	5.725 to 6.725GHz (check model table)	
2. Level:	0dBm maximum	
3. Connector:	N-type	
4. Impedance:	50Ω	
5. Return loss:	>15dB	
Output specification		
6. Frequency range:	Within 950 to 2,150MHz (check model table)	
7. Connector:	N-type	
8. Impedance:	50Ω	
9. Return loss:	≥15dB	
10. 1dB compression point:	-10dBm	
Transfer characteristics		
11. Gain:	-15dB typical	
12. Gain adjustment:	none	
<b>Option:</b>	<b>All models may be fitted with gain adjustment, from +10 to -25dB.</b>	
13. Gain ripple:	Over ±20MHz: <1dB p.t.p. Over output band: <3dB p.t.p.	
14. Frequency translation:	Single translation, non-inverting LO 4.9GHz inverting LO 7.7GHz	
15. LO stability:	2 x 10 <sup>-7</sup> from 0°C to 50°C Ageing: 1 x 10 <sup>-6</sup> per year	
16. Phase noise: 10Hz	-45dBc/Hz	
100Hz	-65dBc/Hz	
1kHz	-75dBc/Hz	
10kHz	-85dBc/Hz	
100kHz	-95dBc/Hz	
1MHz	-105dBc/Hz	
Mains related	-60dBc	
17. External reference:	10MHz, 0dBm	5MHz, 0dBm
18. In-band spuri (at 0dBm input):	<-70dBm	
Miscellaneous		
19. Power supply:	115V/230V ±10% 50/60Hz ±10%, 30VA	
20. Mechanical:	1U 19" frame, 400mm deep	
21. Temperature:	Operating: 0° to 50°C Storage: -40° to 85°C	
22. Relative humidity:	Operating: 0 to 90% Storage: 0 to 95%	
23. Summary alarm:	Usually none available. <b>Option:</b> NO and NC dry relay contacts via rear mounted connector	
24. Summary alarm indication:	Through front panel LED	
25. Remote Monitoring & Control:	None	

### MODEL TABLE

Model	Input band, GHz	Output band, MHz	LO Frequency, GHz
T530	5.850 - 6.425	950 - 1,525	4.90
T531	5.850 - 6.725	975 - 1,850	7.70
T532	5.725 - 6.725	975 - 1,975	7.70

**Models with adjustable gain, from +10 to -25dB, are designated by a V suffix: T530V, T531V**

The above is a list of the more common models. Other input and output band selections are possible, in single or dual conversion. Please consult us providing exact details of your requirements.