

T550 series C-band Test Loop Translators

Input Specification	Options
1. Frequency range:	5.85 to 6.425GHz
2. Level:	0dBm maximum
3. Connector:	N-type
4. Impedance:	50Ω
5. Return loss:	>15dB
Output specification	
6. Frequency range:	3.625 to 4.2GHz
7. Connector:	N-type
8. Impedance:	50Ω
9. Return loss:	≥15dB
10. 1dB compression point:	-10dBm
Transfer characteristics	
11. Gain:	-18dB typical
12. Gain adjustment:	none
13. Gain ripple:	Over ±20MHz: <1dB p.t.p. Over output band: <3dB p.t.p.
14. Frequency translation:	Single translation using 2.225GHz LO
15. LO stability:	2 x 10 ⁻⁷ from 0°C to 50°C Ageing: 1 x 10 ⁻⁶ per year
16. Phase noise: 10Hz	-50dBc/Hz
100Hz	-70dBc/Hz
1kHz	-80dBc/Hz
10kHz	-90dBc/Hz
100kHz	-95dBc/Hz
1MHz	-105dBc/Hz
Mains related	-60dBc
17. External reference:	10MHz, 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. Option: 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, GHz	LO Frequency, GHz
T550	5.85 - 6.425	3.625 - 4.2	2.225