

**Ku to L-band Test Loop Translators**

Input Specification		Options
1. Frequency range:	12.75 to 13.25GHz or 13.75 to 14.50GHz or 17.30 to 18.40GHz	(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	
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
<b>T730</b>	14.0 - 14.5	950 - 1,450	13.05
<b>T731</b>	13.75 - 14.5	950 - 1,700	12.80
<b>T732</b>	12.75 - 13.25	950 - 1,450	11.80
<b>T830</b>	17.30 - 18.40	1,000 - 2,100	16.30

**Models with adjustable gain, from +10 to -25dB, are designated by a V suffix: T730V, T731V, T732V, T830V**

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.