

T730 series

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
Option:	Manual gain adjustment from +10 to -25dB, or Remote gain adjustment from 0 to -20dBm
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 ⁻⁷ from 0°C to 50°C Ageing: 1 x 10 ⁻⁶ 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. Option: NO and NC dry relay contacts via rear mounted connector
24. Summary alarm indication:	Through front panel LED and/or remote interface, if available
25. Remote Monitoring & Control:	Standard: no interface. Option: RS232/RS422 and TCP/IP with web browser & SNMP. See note in model table

MODEL TABLE

Model	Input band, GHz	Output band, MHz	LO Frequency, GHz
T730	14.0 - 14.5	950 - 1,450	13.05
T731	13.75 - 14.5	950 - 1,700	12.80
T732	12.75 - 13.25	950 - 1,450	11.80
T830	17.30 - 18.40	1,000 - 2,1000	16.30

Models with adjustable gain, from +10 to -25dB, are designated by a V suffix: T730V, T731V, T732V, T830V
Models with remote interface are designated by a S suffix: T730S, T731S, T732S, T830S. Gain adjustment in these models only available through remote interface and is restricted to a range of 0 to -20dB

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.