www.novella.co.uk

T770 series

Ku-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 18.10GHz (check model table)	
2. Level:		0dBm maximum	
3. Connector:		N-type	
4. Impedance:		50Ω	
5. Return loss:		>15dB	
Output specification			
6. Frequency range:		Within 10.7 to 12.75GHz (check model table)	
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 LOs from 1.75GHz to 6.60GHz **Note:** Some of these single translation TLTs have large, unavoidable in-band spurii resulting from higher order mixing products. Please consult us about this prior to ordering, quoting model required. These spurii are usually of no consequence but Novella can offer dual conversion TLTs free of these higher products.	
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	5MHz, 0dBm
18. In-band spurii (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
T770	14.0 - 14.5	10.95 - 11.45	3.05
T771	14.0 - 14.5	12.25 - 12.75	1.75
T772	13.75 - 14.5	10.95 - 11.7	2.80
T773	12.75 - 13.25	10.95 - 11.45	1.80
T774	14.0 - 14.5	11.70 - 12.20	2.30
T779	13.75 - 14.5	12.00 -12.75 or 9.95 - 11.70	1.75 or 2.80
T870	17.30 - 18.10	10.70 - 11.50	6.60

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.