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T660 and T661

X-band Test Loop Translators

			Options
Input Specification			
1. Frequency range:		7.9 to 8.4GHz	
2. Level:		0dBm maximum	
3. Connector:		N-type	
4. Impedance:		50Ω	
5. Return loss:		>15dB	
Output specification			
6. Frequency range:		**T660:** 7.250 to 7.750GHz **T661:** 7.175 to 7.675GHz	
7. Connector:		N-type	
8. Impedance:		50Ω	
9. Return loss:		≥15dB	
10. 1dB compression point:		-10dBm	
Transfer characteristics			
11. Gain:		-15dB	
12. Gain adjustment:		none	
13. Gain ripple:	Over ±20MHz:	<1dB p.t.p.	
	Over output band:	<3dB p.t.p.	
14. Frequency translation:		**T660:** Single translation, LO = 650MHz **T661:** Dual translation via L-band with "co-related" LOs: Downconversion LO: 6.900GHz Upconversion LO: 6.175GHz Overall frequency translation: 725MHz (*)	
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	

(*) This frequency translation when made with a single low side LO of 725MHz generates in-band spurious signals which cannot be avoided, eliminated or filtered.
Dual conversion is used to obtain a non-inverted spectrum clean output