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T665

X-band Test Loop Translator

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:		7.25 to 7.75GHz or 7.175 to 7.675GHz	selectable from front panel or remote interface
7. Connector:		N-type	
8. Impedance:		50Ω	
9. Return loss:		≥15dB	
10. 1dB compression point:		-10dBm	
Transfer characteristics			
11. Gain:		-30dB	
12. Gain adjustment:		±15dB	adjustable from front panel and remote interface
13. Gain ripple:	Over ±20MHz:	<1dB p.t.p.	
	Over output band:	<3dB p.t.p.	
14. Frequency translation:		Dual translation via L-band with "co-related" LOs:	
	Downconversion LO:	6.9GHz	
	Upconversion LO:	6.250GHz or 6.175GHz	
15. LO stability:		2 x 10^{-7} from 0°C to 50°C Ageing: 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		-50dBc	
17. External reference:		10MHz, 0dBm	
18. In-band spurii (at 0dBm input):		<-60dBm	
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:		NO and NC dry relay contacts via rear mounted connector	
24. Summary alarm indication:		Through front panel LED	
25. Remote Monitoring & Control:		RS232/RS485 serial interface	
	Control:	Gain and frequency translation	
	Monitor:	Gain, frequency translation and alarm status	