

**INPUT SPECIFICATION** Options

1. Frequency range:	720 ± 200MHz, 720 ± 40MHz, 720 ± 20MHz (check model table)	
2. Connector:	BNC	TNC
3. Impedance:	50Ω	
4. Return loss:	≥15dB	≥20dB (*)

**OUTPUT SPECIFICATION**

5. Frequency range:	25.0 to 26.0GHz (or any slot up to 1GHz wide within 18 to 30GHz)
6. Connector:	K
7. Impedance:	50Ω
8. Return loss:	≥20dB
9. 1dB compression point:	+10dBm
10. Third order intercept::	+20dBm

**TRANSFER CHARACTERISTICS**

11. Gain:	0 to 30dB, adjustable in 0.1dB steps	
12. Gain ripple:	over ±200MHz:	≤2dB p.t.p.
	over ±40MHz:	≤1dB p.t.p.
	over output band:	≤3dB p.t.p.
13. Group delay distortion:	over ±5MHz	<2ns
	over ±20MHz	<5ns
14. Gain stability, 0°C to 50°C:	±1dB	
15. Frequency stability, 0°C to 50°C:	2 x 10 <sup>-7</sup>	Option 1: 10 <sup>-7</sup> Option 2: 10 <sup>-8</sup> Option 3: 3 x 10 <sup>-9</sup>
16. External reference:	10MHz, 0dBm	5MHz, 0dBm
17. Synthesiser step size:	1MHz	
18. Noise figure (full gain):	<20dB	

**Spurii**

19. Image rejection:	>75dB
20. In-band spurii (at 0dBm output):	<-60dBc

**PHASE NOISE**

21. 10Hz:	<-38dBc/Hz
22. 100Hz:	<-67dBc/Hz
23. 1kHz:	<-80dBc/Hz
24. 10kHz:	<-85dBc/Hz
25. 100kHz:	<-95dBc/Hz
26. 1MHz:	<-105dBc/Hz
27. Mains related:	<-60dBc

**MISCELLANEOUS**

28. Power supply:	115V/230V ±10% 50/60Hz ±10%, 30VA	
29. Mechanical:	1U 19" frame, 400mm deep	
30. Temperature:	Operating:	0° to 50°C
	Storage:	-40° to 85°C
31. Relative humidity:	Operating:	0 to 90%
	Storage:	0 to 95%
32. Summary alarm:	NO and NC dry relay contacts via rear mounted connector	
33. Summary alarm indication:	Front panel LED	
34. Remote control:	RS232/RS485 serial interface	

(\*) Noise figure increases by 3dB, overall gain decreases by 3dB.

**MODEL TABLE**

Output Frequency	Input frequency and bandwidth		
	700 ± 200MHz	720 ± 40MHz	720 ± 20MHz
25.0 - 26.0GHz	U2588	U2587	U2586