

INPUT SPECIFICATION		Options
1. Frequency range:	70 ± 20MHz or 140 ± 40MHz (check model table)	
2. Connector:	BNC	
3. Impedance:	50Ω	75Ω(*)
4. Return loss:	≥15dB	
OUTPUT SPECIFICATION		
5. Frequency range:	5.725 to 7.100GHz (check model table)	
6. Connector:	N-type	SMA
7. Impedance:	50Ω	
8. Return loss:	≥15dB	
9. 1dB compression point:	+10dBm	
10. Third order intercept:	+20dBm	
11. Output mute:	Front panel, parallel and serial interface >90dB at max gain, >60dB at min gain	
TRANSFER CHARACTERISTICS		
12. Gain:	0 to 30dB, adjustable in 0.1dB steps	
13. Gain ripple:	over ±20MHz: over output band:	≤1dB p.t.p. ≤3dB p.t.p
14. Group delay distortion:	over ±5MHz over ±20MHz	<2ns <5ns
15. Gain stability, 0°C to 50°C:	±1dB	
16. Frequency stability, 0°C to 50°C:	0°C to +50°C: At constant temperature over 24 hr: Aging per year:	< 3 x 10 ⁻⁸ < 5 x 10 ⁻⁹ < 5 x 10 ⁻⁷
17. External reference:	10MHz, 0dBm	5MHz, 0dBm
18. Synthesiser step size:	1kHz	
19. Noise figure (full gain):	<20dB	
Spurii		
20. Image rejection:	>50dB	
21. In-band spurii (at 0dBm output):	<-55dBc	
PHASE NOISE		
22. 10Hz:	<-45dBc/Hz	
23. 100Hz:	<-70dBc/Hz	
24. 1kHz:	<-80dBc/Hz	
25. 10kHz:	<-85dBc/Hz	
26. 100kHz:	<-95dBc/Hz	
27. 1MHz:	<-110dBc/Hz	
28. Mains related:	<-50dBc	
MISCELLANEOUS		
29. Power supply:	115V/230V ±10% 50/60Hz ±10%, 45VA	
30. Mechanical:	1U 19" frame, 400mm deep	
31. Temperature:	Operating: Storage:	0° to 50°C -40° to 85°C
32. Relative humidity:	Operating: Storage:	0 to 90% 0 to 95%
33. Summary alarm:	NO and NC dry relay contacts via rear mounted connector	
34. Summary alarm indication:	Front panel LED	
35. Remote control:	<ul style="list-style-type: none"> ● RS232 or RS422/RS485, connector D-type 9P F ● Serial emulation over TCP/IP, connector RJ45 ● SNMP and HTTP over TCP/IP Ethernet, connector RJ45 	

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

MODEL TABLE

Output Frequency	Input frequency and bandwidth		
	70 ± 20MHz	140 ± 40MHz	70 ± 20MHz, 140 ± 20MHz and ±40MHz
5.85 - 6.425 GHz	U550	U555	U570
5.85 - 6.725 GHz	U551	U556	U571
5.725 - 6.725 GHz	U552-1	U557-1	U572-1
5.7 - 6.7 GHz	U552-2	U557-2	U572-2
6.700 - 7.100 GHz	U553	U558	U573
5.725 - 7.100 GHz	U554	U559	U574