

<b>INPUT SPECIFICATION</b>		Options
1. Frequency range:	8.1 to 8.5GHz	
2. Connector:	SMA	N-type
3. Impedance:	50Ω	
4. Return loss:	≥20dB	
<b>OUTPUT SPECIFICATION</b>		
5. Frequency range:	500 to 900MHz	
6. Connector:	SMA	N-type
7. Impedance:	50Ω	
8. Return loss:	15dB typical	≥20dB (*)
9. 1dB compression point:	+10dBm	
10. Third order intercept::	+20dBm	
<b>TRANSFER CHARACTERISTICS</b>		
11. Gain:	25dB	
12. Gain ripple: over ±20MHz:	≤1dB p.t.p.	
over input band:	≤3dB p.t.p	
13. Gain stability, 0°C to 50°C:	±1dB	
14. Gain slope:	≤0.02dB/MHz	
15. Noise figure:	16dB typical	
<b>LOCAL OSCILLATOR</b>		
16. Local oscillator frequency:	7.6GHz	
17. 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>
18. External reference:	10MHz, 0dBm	5MHz, 0dBm
<b>Spurii</b>		
19. Image rejection:	>75dB	
20. In-band spurii (at 0dBm output):	<-60dBc	
21. Out of band Spurii:	≤-40dBm	
<b>PHASE NOISE</b>		
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:	<-60dBc	
<b>MISCELLANEOUS</b>		
29. Power supply:	115V/230V ±10% 50/60Hz ±10%, 30VA	
30. Mechanical:	1U 19" frame, 400mm deep	
31. Temperature: Operating:	0° to 50°C	
Storage:	-40° to 85°C	
32. Relative humidity: Operating:	0 to 90%	
Storage:	0 to 95%	
33. Summary alarm:	NO and NC dry relay contacts via rear mounted connector	
34. Summary alarm indication:	Front panel LED	

(\*) Output compression point and overall gain decrease by 3dB.

**MODEL TABLE**

	Input Frequency	Output Frequency	Local Oscillator
BD670	8.1 - 8.55GHz	500 - 900MHz	7.6GHz