

**INPUT SPECIFICATION**

1. Frequency range:	7.25 to 7.75GHz	
2. Connector:	SMA	N-type
3. Impedance:	50Ω	
4. Return loss:	≥18dB	

**OUTPUT SPECIFICATION**

5. Frequency range:	950 to 1,450MHz	
6. Connector:	SMA	N-type
7. Impedance:	50Ω	
8. Return loss:	≥15dB typical	
9. 1dB compression point:	+10dBm (typ. +15dBm)	

**TRANSFER CHARACTERISTICS**

10. Gain:	25dB (±1dB), fixed	<b>Option S:</b> 10 to 30dB adjustable via remote interface
11. Gain ripple: over any 40MHz transponder:	≤0.5 p.t.p.	
over 500/1,000MHz output band:	≤1.5dB p.t.p.	
12. Gain stability, 0°C to 50°C:	±1dB	
13. Gain slope:	≤0.02dB/MHz	

**LOCAL OSCILLATOR**

14. External reference:	10MHz, 0dBm nominal
15. Local Oscillator:	6.3GHz
16. Noise figure:	<15dB

**Spurii**

17.	≤-60dBm
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**PHASE NOISE**

	Typical	IESS308/309 mask
18. 10Hz:	<-50dBc/Hz	
19. 100Hz:	<-70dBc/Hz	
20. 1kHz:	<-85dBc/Hz	
21. 10kHz:	<-105dBc/Hz	
22. 100kHz:	<-110dBc/Hz	
23. 1MHz:	<-116dBc/Hz	
24. Mains related:	<-50dBc/Hz	

**MISCELLANEOUS**

25. Power supply:	115V/230V ±10%, 50/60Hz ±10%, 20VA
26. Mechanical:	1U 19" frame, 400mm deep
27. Temperature:	Operating: -20° to +50°C
	Storage: -50° to +70°C
28. Summary alarm:	NO and NC dry relay contacts via rear mounted connector
29. Summary alarm indication:	Through front panel LED
30. Remote interface:	None
	<b>Option S:</b> Ethernet SNMP & web browser

**MODEL TABLE**

	Input Frequency	Output Frequency	Local Oscillator
BD651	7.25 - 7.75GHz	950 - 1,450MHz	6.3GHz

**Note:** Specification subject to change at any time without prior notice.