

#### INPUT SPECIFICATION

1. Frequency range:	3.4 to 4.8GHz (check model table)	
2. Connector:	SMA	N-type
3. Impedance:	50Ω	
4. Return loss:	≥18dB	

#### OUTPUT SPECIFICATION

5. Frequency range:	950 to 2,000MHz (check model table)	
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:	5.15GHz (simple, spectrum invert models) 10.75GHz and 13.05GHz (non-inverting models) 5.75GHz (BD584M)
16. Noise figure:	<16dB

#### Spurii

17. Image rejection:	>75dB
18. In-band spurii (at 0dBm output):	<-60dBc
19. Out of band Spurii:	≤-60dBm

#### PHASE NOISE

	Typical
20. 10Hz:	<-50dBc/Hz
21. 100Hz:	<-70dBc/Hz
22. 1kHz:	<-85dBc/Hz
23. 10kHz:	<-105dBc/Hz
24. 100kHz:	<-110dBc/Hz
25. 1MHz:	<-116dBc/Hz
26. Mains related:	<-60dBc

#### MISCELLANEOUS

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

#### MODEL TABLE

	Input Frequency	Output Frequency	Local Oscillator
BD501	3.625 - 4.2GHz	950 - 1,525MHz	5.15GHz
BD511	3.4 - 4.2GHz	950 - 1,750MHz	5.15GHz
BD591N	3.4 - 4.2GHz	950 - 1,750MHz	10.75GHz + 13.05GHz
BD584M	4.5 - 4.8GHz	950 - 1,250MHz	5.75GHz
BD595	3.4 - 4.2GHz	950 - 1,750MHz	5.15GHz
	plus 4.5 - 4.8GHz	plus 950 - 1,250MHz	plus 5.75GHz

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