

## BU800 Series

### DBS-band block upconverters in 1U 19" chassis with independent PSU and 10MHz reference

#### INPUT SPECIFICATION

1. Frequency range:	950MHz to 2,100MHz (check model table)	
2. Connector:	SMA	N-type
3. Impedance:	50Ω	
4. Return loss:	≥15dB typical	

#### OUTPUT SPECIFICATION

5. Frequency range:	17.3GHz to 18.4GHz (check model table)	
6. Connector:	SMA	N-type
7. Impedance:	50Ω	
8. Return loss:	≥18dB	
9. 1dB compression point:	+10dBm	

#### TRANSFER CHARACTERISTICS

10. Gain:	15dB (±1dB), fixed	25dB (±1dB), fixed
11. Gain stability: from 0°C to +50°C: over 24 hours, constant temp.	≤ 2dB ≤ 0.4dB	
12. Gain ripple: over any 40MHz transponder: over 500/750MHz output band:	≤0.5dB p.t.p. ≤1.5dB p.t.p	
13. External reference:	10MHz, 0dBm nominal	
14. Local Oscillator: Stability, short term, 0°C to +50°C	16.3GHz 2 x 10 <sup>-8</sup>	
15. Noise figure:	<20dB	

#### Spurii

16. From 0 to 15GHz (at 0dBm output):	≤-60dBm
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#### PHASE NOISE

17. 10Hz:	<-40dBc/Hz
18. 100Hz:	<-65dBc/Hz
19. 1kHz:	<-75dBc/Hz
20. 10kHz:	<-85dBc/Hz
21. 100kHz:	<-95dBc/Hz
22. 1MHz:	<-100dBc/Hz
23. Mains related:	<-50dBc/Hz

#### MISCELLANEOUS

24. Power supply:	115V/230V ±10%, 50/60Hz ±10%, 30VA.
25. Mechanical:	1U 19" frame, 400mm deep
26. Temperature:	Operating: 0° to +50°C Storage: -50° to +70°C
27. Summary alarm:	NO and NC dry relay contacts via rear mounted connector
28. Summary alarm indication:	Through front panel LED
29. Remote interface:	Serial RS232/RS485 plus SNMP and web browser

#### MODEL TABLE

Model	Input band, MHz	Output band, GHz	LO, GHz
BU811	1,000 to 2,100	17.3 to 18.4	16.30
BU851	1,000 to 1,800	17.3 to 18.1	16.30
BU852	950 to 1,750	17.3 to 18.1	16.35
BU853	950 to 1,750	17.6 to 18.4	16.65

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