

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

INPUT SPECIFICATION		
1. Frequency range:	950MHz to 2,150MHz (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:	12dB (±1dB), fixed	25dB (±1dB), fixed
11. Gain stability: from -25°C to +50°C:	≤ 3dB	
over 24 hours, constant temp.	≤ 0.4dB	
12. Gain ripple: over any 40MHz transponder:	≤1dB p.t.p.	
over 500/750MHz output band:	≤3dB p.t.p.	
13. External reference:	10MHz, 0dBm nominal	
14. Local Oscillator:	16.3GHz	
15. Noise figure:	<20dB	
Spurii		
16. From 0 to 15GHz (at 0dBm output):	≤-60dBm	
PHASE NOISE		
	Typical	IESS308/309 mask
17. 10Hz:	<-40dBc/Hz	-30dBc/Hz
18. 100Hz:	<-65dBc/Hz	-60dBc/Hz
19. 1kHz:	<-75dBc/Hz	-70dBc/Hz
20. 10kHz:	<-85dBc/Hz	-80dBc/Hz
21. 100kHz:	<-95dBc/Hz	-90dBc/Hz
22. 1MHz:	<-100dBc/Hz	-90dBc/Hz
23. Mains related:	<-50dBc/Hz	-35dBc/Hz
MISCELLANEOUS		
24. Power supply:	115V/230V ±10%, 50/60Hz ±10%, 40VA.	
25. Mechanical:	1U 19" frame, 400mm deep	
26. Temperature:	Operating:	-20° 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:	None	
30. Compatibility:	Compatible with U350 Series of upconverters	

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.