

BU80 Series

DBS-band block upconverters in IP67 boxes for outside mounting

INPUT SPECIFICATION

1. Frequency range:	1,000MHz to 2,100MHz (check model table)
2. Connector:	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:	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 -25°C to +50°C: over 24 hours, constant temp.	≤ 3dB ≤ 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. Local Oscillator:	16.3GHz	
14. Noise figure:	<20dB	

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

16. 10Hz:	-45dBc/Hz
17. 100Hz:	-65dBc/Hz
18. 1kHz:	-75dBc/Hz
19. 10kHz:	-85dBc/Hz
20. 100kHz:	-95dBc/Hz
21. 1MHz:	-100dBc/Hz
22. Mains related:	-50dBc/Hz

MISCELLANEOUS

23. Power supply:	+17V DC, 500mA, via L-band input, multiplexed with L-band signal.
24. Mechanical:	Metal box, IP67 rating, 220x145x55mm
25. Temperature:	Operating: -20° to +50°C Storage: -50° to +70°C

MODEL TABLE

Model	Input band, MHz	Output band, GHz	LO, GHz
BU81	1,000 to 2,100	17.30 to 18.40	16.30
BU82	950 to 1,750	17.30 to 18.10	16.35
BU83	950 to 1,750	17.60 to 18.40	16.65
BU85	1,000 to 1,800	16.30 to 18.10	16.30

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