

## BU70 Series

### Ku-band block upconverters in IP67 boxes for outside mounting

#### INPUT SPECIFICATION

1. Frequency range:	950MHz to 1,700MHz (check model table)
2. Connector:	N-type
3. Impedance:	50Ω
4. Return loss:	≥15dB typical

#### OUTPUT SPECIFICATION

5. Frequency range:	12.75GHz to 14.5GHz (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:	11.8GHz, 12.8GHz, 13.05GHz (check model table)	
14. Noise figure:	<20dB	

#### Spurii

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

Typical

16. 10Hz:	-40dBc/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
BU70	950 to 1,450	14.00 to 14.50	13.05
BU71	950 to 1,450	12.75 to 13.25	11.80
BU73	950 to 1,700	13.75 to 14.50	12.80
BU75 <sup>(1)</sup>	950 to 1,450 plus 950 to 1,750	12.75 to 13.25 plus 13.75 to 14.50	11.80 plus 12.80

<sup>(1)</sup> Dual band, single input, single output, active band selectable via control cable.

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