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BD700 Series

Ku-band block downconverters in 1U 19'' chassis

INPUT SPECIFICATION			
1. Frequency range:		10.70 to 12.75GHz (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 **Option S**: 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. External reference:		10MHz, 0dBm nominal	
13. Local Oscillator:		9.75, 10, 10.75 or 11.30GHz (check model table)	
14. Noise figure:		<15dB	
Spurii			
15.		≤-60dBm	
PHASE NOISE		Typical	IESS308/309 mask
16. 10Hz:		<-50dBc/Hz	
17. 100Hz:		<-70dBc/Hz	
18. 1kHz:		<-85dBc/Hz	
19. 10kHz:		<-105dBc/Hz	
20. 100kHz:		<-110dBc/Hz	
21. 1MHz:		<-116dBc/Hz	
22. Mains related:		<-50dBc/Hz	
MISCELLANEOUS			
23. Power supply:		115V/230V ±10%, 50/60Hz ±10%, 20VA	
24. Mechanical:		1U 19'' frame, 400mm deep	
25. Temperature:	Operating:	-20° to +50°C	
	Storage:	-50° to +70°C	
26. Summary alarm:		NO and NC dry relay contacts via rear mounted connector	
27. Summary alarm indication:		Through front panel LED	
28. Remote interface:		None **Option S**: Ethernet SNMP & web browser	

MODEL TABLE

Model	Input band, GHz	Output band, MHz	LO, GHz
BD701	10.95 to 11.70	950 to 1,700	10.00
BD702	11.45 to 11.95	950 to 1,450	10.50
BD711	11.70 to 12.25	950 to 1,500	10.75
BD721	12.25 to 12.75	950 to 1,450	11.30
BD731 (1)	10.70 to 11.70 plus 11.70 to 12.75	950 to 1,950 plus 950 to 2,000	9.75 plus 10.75
BD732 (2)	10.70 to 11.70 plus 11.70 to 12.75	950 to 1,950 plus 950 to 2,000	9.75 plus 10.75
BD741	11.7 to 12.75	950 to 2,000	10.75
BD742	10.7 to 11.70	950 to 1,950	9.75

(1) Dual band, single input, single output, active band selectable from front panel and parallel remote interface.
(2) Dual band, single input, dual output, both bands simultaneously operational.

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