

BD2700 series Ka-band block downconverters

INPUT SPECIFICATION	
1. Frequency range:	Check model table
2. Connector:	K-type
3. Impedance:	50Ω
4. Return loss:	≥18dB
OUTPUT SPECIFICATION	
5. Frequency range:	Check model table
6. Connector:	Indoor unit: SMA outdoor unit: 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 SF: remote interface with fixed gain. Option SV: remote interface with adjustable gain, 10 to 30dB
11. Gain ripple:	over any 40MHz segment: ≤0.5 p.t.p. over each output band: ≤1.5dB p.t.p.
12. External reference:	10MHz, 0dBm nominal
13. Local Oscillator:	Check model table
14. Noise figure:	Single band models: <16 dB Multi band models: <20 dB
Spurii	
15. Spurii:	<-60dBc
16. Image rejection:	>50dB
PHASE NOISE	
	Typical
17. 10Hz:	<-40dBc/Hz
18. 100Hz:	<-65dBc/Hz
19. 1kHz:	<-80dBc/Hz
20. 10kHz:	<-90dBc/Hz
21. 100kHz:	<-100dBc/Hz
22. 1MHz:	<-110dBc/Hz
23. Mains related:	<-50dBc/Hz
MISCELLANEOUS	
24. Power supply:	Indoor unit: 115V/230V ±10%, 50/60Hz ±10%, single band: 30VA Multi band:40VA Outdoor unit: 17V DC, 500mA, via L-band input, multiplexed with L-band signal.
25. Mechanical:	Indoor Unit: 1U 19" frame Outdoor unit: Metal box, IP67 rating
26. Temperature:	Operating: -20° to +50°C Storage: -50° to +70°C
27. Summary alarm:	NO and NC dry relay contacts Indoor: via rear mounted connector Outdoor: via L-band output
28. Summary alarm indication:	Indoor: Through front panel LED
29. Remote interface:	Indoor: Through front panel LED None as standard Option S: Indoor: Serial (RS232 and RS485) and TCP/IP (SNMP and web browser) Outdoor: TCP/IP (SNMP and web browser)

MODEL TABLE

Model	Input band, GHz	Output band, MHz	LO, GHz
BD2722-1	27.0 - 28.5	900 - 2400	26.10
	28.5 - 30.0	900 - 2400	27.60
BD2721	27.0 - 28.5	900 - 2400	26.10
BD2522	26.61 - 27.31	850 - 1550	25.76
BD2712-1	27.0 - 28.1	900 - 2000	26.10
	28.1 - 29.1	1000 - 2000	27.10
BD2712-2	27.5 - 28.5	1000 - 2000	26.50
	28.5 - 29.5	1000 - 2000	27.50
BD2727	27.0 - 28.0	1000 - 2000	26.00
BD2730	27.0 - 28.0	1000 - 2000	26.00
	28.0 - 29.0	1000 - 2000	27.00
	29.0 - 30.0	1000 - 2000	28.00
BD2731	27.5 - 28.5	1000 - 2000	26.50
	28.25 - 29.25	950 - 1,950	27.30
	29.0 - 30.0	1000 - 2000	28.00
BD2792	27.0 - 28.5	900 - 2,400	26.10
	28.5 - 29.55	1000 - 1700	27.50
BD3030	30.0 - 31.0	1000 - 2000	29.00

Note: Specification subject to change at any time without prior notice.
These converter types are only a small selection of what is available. Please contact us for further frequency bands and features