

| INPUT SPECIFICATION | |
|--------------------------------------|--|
| 1. Frequency range: | Check model table |
| 2. Connector: | Indoor: SMA Outdoor: N-type |
| 3. Impedance: | 50Ω |
| 4. Return loss: | ≥18dB |
| OUTPUT SPECIFICATION | |
| 5. Frequency range: | Check model table |
| 6. Connector: | Indoor: SMA Outdoor: N-type |
| 7. Impedance: | 50Ω |
| 8. Return loss: | ≥15dB typical |
| 9. 1dB compression point: | +10dBm (typ. +15dBm) |
| TRANSFER CHARACTERISTICS | |
| 10. Gain: | Single Band: 26dB (±2dB) minimum, fixed Dual Band: 23dB (±2dB) minimum, fixed Option S: 10 to 30dB adjustable via remote interface |
| 11. Gain ripple: | over any 40MHz transponder: ≤0.5 p.t.p. over input band: ≤1.5dB p.t.p. |
| 12. External reference: | 10MHz, 0dBm nominal |
| 13. Local Oscillator: | check model table |
| 14. Noise figure: | <16dB for single band and <20dB for dual band |
| Spurii | |
| 15. Image rejection: | >60dB |
| 16. In-band spurii (at 0dBm output): | <-60dBm |
| PHASE NOISE | |
| | Typical IESS308/309 mask |
| 17. 10Hz: | <-45dBc/Hz |
| 18. 100Hz: | <-70dBc/Hz |
| 19. 1kHz: | <-85dBc/Hz |
| 20. 10kHz: | <-105dBc/Hz |
| 21. 100kHz: | <-105dBc/Hz |
| 22. 1MHz: | <-110dBc/Hz |
| 23. Mains related: | <-50dBc/Hz |
| MISCELLANEOUS | |
| 24. Power supply: | Indoor: 115V/230V ±10%, 50/60Hz ±10%, 20VA Outdoor: +17V to +24V DC, 500mA, via L-band output |
| 25. Mechanical: | Indoor: 1U 19" frame Outdoor: IP67 Metal box |
| 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: | 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

| Indoor/Outdoor | Input band, GHz | Output band, MHz | LO, GHz |
|----------------------------------|---------------------------------------|-----------------------------------|--------------------|
| BD701/BD70 | 10.95 to 11.70 | 950 to 1,700 | 10.00 |
| BD702 | 11.45 to 11.95 | 950 to 1,450 | 10.50 |
| BD711/BD71 | 11.70 to 12.25 | 950 to 1,500 | 10.75 |
| BD721/BD72 | 12.25 to 12.75 | 950 to 1,450 | 11.30 |
| BD731/BD73 ⁽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/BD76 ⁽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/BD74 | 11.7 to 12.75 | 950 to 2,000 | 10.75 |
| BD742/BD78 | 10.7 to 11.70 | 950 to 1,950 | 9.75 |
| BD743/BD75 | 10.7 to 11.75 | 950 to 2,000 | 9.75 |
| BD745 | 11.7 to 12.75 | 1,100 to 2,150 | 10.60 |
| BD791 | 13.75 to 14.50 | 950 to 1,700 | 12.80 |

⁽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.
 These converter types are only a small selection of what is available. Please contact us for further frequency bands and features