

INPUT SPECIFICATION	Options
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|---------------------|----------------------------|
| 1. Frequency range: | Check model table |
| 2. Connector: | Indoor: SMA Outdoor:N-type |
| 3. Impedance: | 50Ω |
| 4. Return loss: | 15dB typical |

OUTPUT SPECIFICATION

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|-----------------------------|-------------------|
| 5. Frequency range: | Check model table |
| 6. Connector: | Check model table |
| 7. Impedance: | 50Ω |
| 8. Return loss: | ≥15dB |
| 9. 1dB compression point: | +10dBm |
| 10. Third order intercept:: | +20dBm |

TRANSFER CHARACTERISTICS

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|----------------------------------|--------------|
| 11. Gain: | 15dB |
| 12. Gain ripple: over ±20MHz: | ≤1dB p.t.p. |
| over input band: | ≤3dB p.t.p |
| 13. Gain stability, 0°C to 50°C: | ±1dB |
| 14. Gain slope: | ≤0.02dB/MHz |
| 15. Noise figure: | 20dB typical |

LOCAL OSCILLATOR

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| 16. Local oscillator frequency: | Check model table |
| 17. Frequency stability, 0°C to +50°C: | 5x10 ⁻⁸ |

Spurii

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|--------------------------------------|----------------------|
| 18. Image rejection: | >50dB |
| 19. In-band spurii (at 0dBm output): | <-60dBc at full gain |

PHASE NOISE

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|--------------------|-------------|
| 20. 10Hz: | <-40dBc/Hz |
| 21. 100Hz: | <-65dBc/Hz |
| 22. 1kHz: | <-80dBc/Hz |
| 23. 10kHz: | <-90dBc/Hz |
| 24. 100kHz: | <-90dBc/Hz |
| 25. 1MHz: | <-110dBc/Hz |
| 26. Mains related: | <-60dBc |

MISCELLANEOUS

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|-----------------------------------|---|
| 27. 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 |
| 28. Mechanical: | Indoor Unit: 1U 19'' frame, 400mm deep
Outdoor unit: Metal box, IP67 rating |
| 29. Temperature: Operating: | -20° to 50°C |
| Storage: | -40° to 85°C |
| 30. Relative humidity: Operating: | 0 to 90% |
| Storage: | 0 to 95% |
| 31. Summary alarm: | NO and NC dry relay contacts via rear mounted connector |
| 32. Summary alarm indication: | Front panel LED |
| 33. | Option S: Ethernet SNMP & web browser |

MODEL TABLE

	Input Frequency, MHz	Output Frequency, GHz	Local Oscillator, GHz	Output connector
BU3030	1,000 to 2,000	30.0 to 31.0	29.0	K-type
BU2030	1,000 to 2,000	20.2 to 21.2	19.2	K-type
BU2829	950 to 1,750	28.35 to 29.15	27.4	K-type
BU2730	950 to 2,150	27.5 to 30.0	26.5 plus 27.7 plus 28.9	K-type
BU2729	1,000 to 2,000	27.5 to 29.5	26.5 plus 27.5	K-type
BU2731	1000 to 2000	27.0 to 28.0 28.0 to 29.0 30.0 to 31.0	26.0 plus 27.0 plus 29.0	K-type

BUxxxx – Indoor unit, fixed gain BUxxxxS - Indoor unit, variable gain (10-30dB), remote interface BUxxxxE - Outdoor unit, fixed gain
BUxxxxES - Outdoor unit, variable gain (10-30dB), remote interface.

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