

1. Key parameter characteristics

- (1) · Frequency range: 8-18GHz;
- (2) · Number of input channels: 4;
- (3) · Output P-1 power: $\geq 20\text{dBm}$;
- (4) · Output power: $\geq 0\text{dBm}$;
- (5) · Gain: $\geq 25\text{dB}$;
- (6) · Spurious suppression: $\geq 70\text{dBc}$ @ output power;
- (7) · Harmonic suppression: $\geq 40\text{dBc}$ @ output power;
- (8) · Output intermodulation suppression: better than 70dBc @ output power 0dBm , 2 input;
- (9) · Test frequency point: 8,9,10,...18GHz
- (10) · Installation heat dissipation requirements: passive heat dissipation, with good ventilation;
- (11) · Working temperature range: $0\sim+45^{\circ}\text{C}$;
- (12) · Working humidity range: $\leq 85\%$ (non-condensation);
- (13) · Storage temperature range: $-40\sim+85^{\circ}\text{C}$;
- (14) · Storage humidity range: $\leq 70\%$;
- (15) · Reliability: ≥ 20000 hours;
- (16) · Safety requirements: low ripple DC power supply, $+6\text{V}, -0.6\text{V} \geq 3\text{A}$;
- (17) · Power consumption: $\leq 20\text{W}$;
- (18) · Weight of the whole machine: $\leq 3\text{kg}$



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