

# Ku-band 8W mini BUC (Fan type)



## Electrical Specification

| Item               | Specification   |
|--------------------|---|
| RF Frequency Range | 14.0 ~ 14.5 GHz (Standard)<br>13.75 ~ 14.5 GHz (Extended)   |
| IF Frequency Range | 950 ~ 1450 MHz (Standard)<br>950 ~ 1700 MHz (Extended)  |
| LO Frequency       | 13.05 GHz (Standard)<br>12.8 GHz (Extended)   |
| P1dB min           | 39 dBm (8W)   |
| Input/Output VSWR  | 2:1   |
| Gain nom.          | 62 dB   |
| Gain Flatness      | ± 1.5 dB max. @ room temp over any 40 MHz<br>± 2.5 dB max. @ room temp over full band   |
| IMD3               | -26 dBc min. @ 36 dBm Output Power<br>(SCL : 33 dBm each, two equal signals 5MHz apart)   |
| Spurious           | -50 dBc @ 39 dBm Output Power   |
| Harmonics          | -50 dBc max. @ 39 dBm Output Power  |
| Reference Signal   | External 10MHz (Sine wave)<br>Power Level : -5 ~ +5 dBm<br>Phase Noise : -125 dBc/Hz max. @ 100 Hz<br>- 135 dBc/Hz max. @ 1kHz<br>- 140 dBc/Hz max. @ 10kHz |
| LO Phase Noise     | 100Hz -60 dBc/Hz  |
|                    | 1kHz -70 dBc/Hz   |
|                    | 10kHz -80 dBc/Hz  |
|                    | 100kHz -90 dBc/Hz   |
|                    | 1 MHz -100 dBc/Hz   |

## Mechanical Specification

| Item                  | Specification  | Note                            |
|-----------------------|--|---------------------------------|
| Power Consumption     | 95W  |                                 |
| Power Requirements    | 24/48 VDC ( +18 ~ +60 VDC)   |                                 |
| Size (L x W x H mm)   | 172 X 120 X 70 mm  | w/o IF connector                |
| Weigh                 | 2.1 Kg Typ.  |                                 |
| Input Connector       | Type N (female) or Type F (female)<br>(Multiplexed IF signal, 10MHz Ref, DC Power) | Separated DC connector – Option |
| Output Connector      | WG-75 (with Groove)  |                                 |
| Cooling               | Forced Air   |                                 |
| Operating Temperature | -40°C to +55°C   |                                 |
| Storage Temperature   | -40°C to +75°C   |                                 |

## Line-Up

| Model No. | RF Freq.      | LO Freq. | IF Freq.     | IF Connector |
|-----------|---------------|----------|--------------|--------------|
| PTB-KS08F | 14~14.5GHz    | 13.05GHz | 0.95~1.45GHz | F-Type       |
| PTB-KS08N | 14~14.5GHz    | 13.05GHz | 0.95~1.45GHz | N-Type       |
| PTB-KE08F | 13.75~14.5GHz | 12.8GHz  | 0.95~1.7GHz  | F-Type       |
| PTB-KE08N | 13.75~14.5GHz | 12.8GHz  | 0.95~1.7GHz  | N-Type       |