



TELEMETRY TRANSMITTER MODEL BA-CB-TX5-SYS

Telemetry transmitter with integrated antenna.

SPECIFICATIONS:

- **Frequency:** C-BAND (100MHZ BAND, 5.8GHz Max)
- **Frequency Step:** 1MHz (controlled via RS422)
- **Frequency Stability:** ± 2.5 ppm max (-20°C ÷ +70°C)
- **Power Output:** 5W min
- **Harmonic Level:** 70dBc min.
- **Output Impedance:** 50 Ohm, VSWR 1.5:1 max
- **Deviation:** tunable via manual trimmer 1.4MHz ÷ 9MHz PTP
- **Frequency Response:** Up to 9MBPS.
- **Input modulation (analog) impedance:** 50 Ohm
- **Supply Voltage:** 12 ÷ 35 Vdc (Reverse voltage protection, no damage: 35V)
Optional : Internal MIL-STD SUPPLY FILTER
- **Current consumption:** 14W max ,Stby mode available.



Picture as reference only
(connector placement and size
will be adapted to system)

ENVIROMENTAL:

- **Temperature:** -20° ÷ +70°C
- **Humidity:** 95%

MECHANICAL:

- **Size:** TBD
- **ENCLOSURE:** TBD (IP66) METAL.
- **Indication:**

LED – POWER ON

OPTIONAL:

LED – OUTPUT POWER O.K.

LED - FREQ LOCK



- **Connectors:**

D38999/24WB35PN (Others available)

1. Mod in RS422 (+)
2. Mod in RS422 (-)
3. Supply returned/ GND
4. Supply voltage
5. Control In RS422 (+)
6. Control In RS422 (-)
7. GND
8. Power HIGH/LOW (N.C, GND- HIGH, 5V-LOW (30dBm max)
9. Control OUT RS422 (+)
10. Control OUT RS422 (-)
11. NC
12. NC
13. NC

- **Integrated antenna:** BA3100
- **Frequency:** 5100 - 5900 MHz
- **V.S.W.R (or Return Loss):** < 1.5:1 (or > 14dB)
- **Gain:** >9.5dBi
- **Beam Width:** 60° x 60°
- **Polarization:** Linear, Vertical
- **Maximum Power:** 20 Watt
- **Dimensions (Length, Diameter):** 114 x 76 x 25.4 mm
- **Weight:** 0.1 kg
- **Radom:** ABS with UV Protection
- **Name plate (On top panel) :** BA Logo, Model #, Serial number, Date of Production (WW, Year).

OTHER

- **Replace ability:** Each unit can be replaced with another no need of calibration.
- **Documents:** Each unit supplied with C.O.C and ATR.