

BT-0-3GHz

(Preliminary)



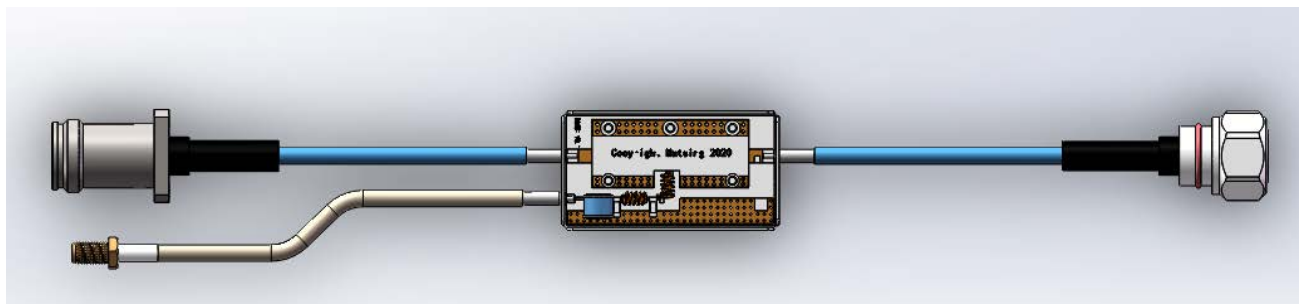
Features

- 1 Used to feed DC voltage and OOK control signals into the feeder cable.
- 2 Low passive intermodulation products, low insertion loss and high power capacity.
- 3 Ultra wide band design for various communication system.
- 4 Small volume, light weight.
- 5 Support AISG 2.0 protocol.

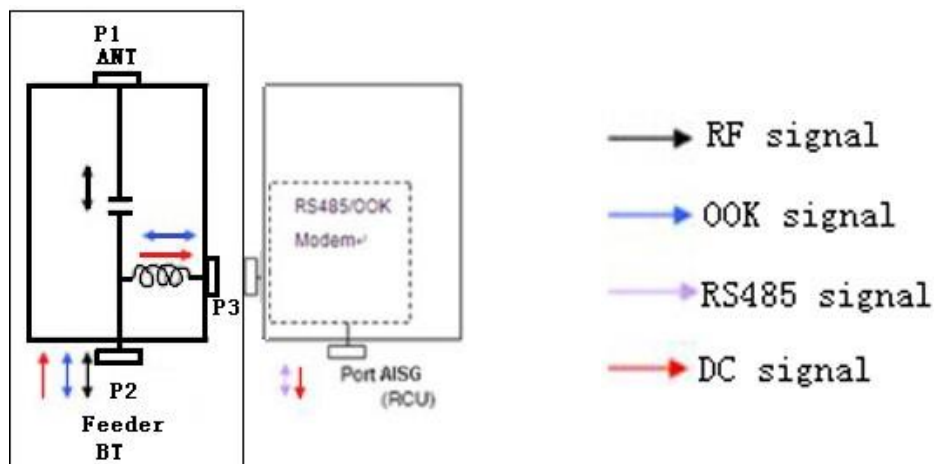
BT = Bias Tee
BTS = Base Transceiver Station
OOK = On Off Keying

Interface

- 1 Input cable length :100mm,
- 2 Input connector: 4.3-10 female
- 3 RF output cable length :100mm,
- 4 RF output connector: 4.3-10 male
- 5 BT output cable length:100mm,
- 6 BT outputconnector: sma female



Block Diagram



BT-0-2690MHz

(Preliminary)



Electrical Properties

Frequency range (MHz)		0 - 2690
Insertion loss (dB)	Port 1 ↔ Port 2	≤ 0.3 (617- 2690 MHz)
Isolation for DC signal (dB)	Port 1 ↔ Port 2	≥ 30
	Port 1 ↔ Port 3 DC/OOK	
VSWR	Port 1 and Port 2	≤ 1.25 (617 - 2690 MHz)
Input power (W)	Port 1 and Port 2	Avg. ≥ 500 (617 - 960 MHz) Avg. ≥ 250 (1690 - 2690 MHz)
Input current (mA)	Port 3 DC/OOK ↔ Port 2	≤ 2300
DC voltage reduction (V)	Port 3 DC/OOK ↔ Port 2	≤ 1 (when the current is 2300 mA)
DC supply voltage (V)		0 ... +30
RF Impedance (Ω)		50
Intermodulation products (dBc)		< -160 (2 x 43 dBm carrier)

Environmental Specification

Operating temperature (°C)		-40 ... +70
Application scene		Indoor//outdoor
Lightning protection (kA)		3 (10/350 us)

Mechanical Specification

BT Dimensions (W x H x D) (mm)		48.5 x 30 x 10
Packing dimensions (W x H x D) (mm)		TBD
BT net Weight (kg)		< 0.2
Packing weight (kg)		TBD
Connectors	Port 1 (BTS)	141 cable with connector 4.3-10 female
	Port 2 (Antenna)	141 cablewith connector 4.3-10 male
	Port 3 DC/OOK	141 cable with connector sma female