

Wide Band Bias Tee Specification



The REMECHIMARK family of TMA offers a cost-effective solution for extending the uplink coverage and improving the quality of service from either new or existing BTS sites. The TMA Bias Tee enables the injection of DC supply and communication signals onto the existing coaxial feeder for simple implementation of the TMA system.

Bias Tee – RF Function

The Bias Tee incorporates a network for the injection of DC onto the existing RF feeder. The RF path has low insertion loss, high return loss and excellent passive intermodulation performance. A high voltage, high Q coaxial capacitor isolates the BTS and antenna ports whilst maintaining a low loss RF path. The antenna port DC injection is achieved by a low resistance high impedance RF isolating network.

Bias Tee – DC and TMA alarm communication Function

The Bias Tee DC supply connections are fed onto the RF line via the RF isolating network. The DC connection is protected by a gas discharge tube (GDT) with secondary protection using a transient protector diode. TMA can communicate with PDU via Bias Tee.

FEATURES

- Bias Tee feed of DC supply -no additional RF cable
- Extremely Low RF Insertion Loss
- Excellent Return Loss
- Exceptional Passive Intermodulation Performance
- Wide band and Outdoor application

Enabled TMA

- Interfaces directly with the REMECHIMARK Power Distribution Unit (PDU)
- lightning protection- IEC-1312-1
- High MTBF

PACKAGING

- Compact and lightweight
- Simple installation

BENEFITS / APPLICATIONS

- Low cost of installation
- No additional feeders
- Replaces existing lightning protectors

Specification

Item	Technical Data
Frequency range	800-2170MHz
Input Power	750W
Insertion loss	=0.1dB
Return loss	=22dB
Isolation	70 dB (DC)
DC resistance	=0.75Ω
Impedance	50 Ω
Connectors	DIN 7/16
Bias voltage	8-15V
Intermodulation products	< -160 dBc (3rd order; with 2 x 20 W)
Size(includeing connector)	123.8×59×39.4mm
Lightning protection	IEC-1312-1
Electromagnetic compatibility	ETS300 342-3
IP grade	IP68
Relative Humidity	5%-95%
Temperature range	-40 ~+65
MTBF	=1000000Hour
Application	DCS, PCS, UMTS Base Station Outdoor