

Smart Bias Tee

966201XX



- AISG modem inside
- Feeding DC to supply cable
- Built-in lighting protection
- Simple installation
- Support AISG1.0 and AISG2.0
- Port DC/AISG=Port for DC and AISG signal
- Frequency Range 340-3800 MHz
- Low PIM $\leq -150/155/160$ dBc
- Low insertion loss ≤ 0.3 dB
- high output power $\leq 500W$ AVG, 2000W Peak
- Port 1=Port for BTS or Antenna
- Port 2=Port for Feeder Cable

Technical Data

Electrical Specifications

Type No.	PIM3 (@2x43 dBm Carrier) (dBc)	≤ -150	96620133	96620143	96620153	96620163
		≤ -155	96620135	96620145	96620155	96620165
		≤ -160	96620137	96620147	96620157	96620167
Application			Antenna-Feeder	BTS-Feeder	Antenna-Feeder	BTS-Feeder
Port1			7-16 male	7-16 male	7-16 female	7-16 female
Port2			7-16 female	7-16 female	7-16 male	7-16 male
Port DC/AISG			female	male	female	male
Frequency Range (MHz)			340-3800			
Insertion Loss (dB)	Port1 – Port2		≤ 0.3			
DC isolation (dB)	Port1 – Port2		> 60			
	Port1 – Port DC/AISG		> 60			
	Port2 – Port DC/AISG		0			
VSWR			≤ 1.25			
Power consumption(W)			0.6 typical			
Power handling (w)	Port1 or Port2 Port DC/AISG		$\leq 500W$ AVG, 2000W Peak $\leq 2.5A / +10 \sim +30VDC$			
Modem communication			3GPP TS 25.461			
Impedance (Ω)			50			

Mechanical Specifications

Dimensions (excluding connectors and mounting bracket) (mm)		75x72x45.5
Weight (including connectors and mounting bracket) (kg)		0.65
Packing Size(mm)		266x126x96 (18Pcs/box)
Color		Light Gray (customized)
Connector	Port 1 Port 2 DC/AISG	7-16 (F or M) 7-16 (F or M) RS485 (F or M, 8-pin)

Environmental Specifications

Operational Temperature ($^{\circ}C$)		-40 to +65
Operational Humidity (%)		≤ 95
Ingress Protection Class		IP67 (Indoor and Outdoor)
Lightning Protection		8kA; 8/20 μs pulse

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Outline Drawing

