

Smart Bias Tee

96620XX7

HILINKS

- AISG modem inside
- Feeding DC to supply cable
- Built-in lightning protection
- Simple installation
- Support AISG1.0 and AISG2.0
- Port DC/AISG=Port for DC and AISG signal
- Frequency Range 698-2700 MHz
- Low PIM ≤ -160 dBc
- Low insertion loss ≤ 0.3 dB
- high output power $\leq 200W$ AVG, 2000W Peak
- Port 1=Port for BTS or Antenna
- Port 2=Port for Feeder Cable

Technical Data

Electrical Specifications				
Type No.	96620387	96620397	96620407	96620417
Application	Antenna-Feeder		BTS-Feeder	
Port1	4.3-10 Male	4.3-10 Female	4.3-10 Male	4.3-10 Female
Port2	4.3-10 Female	4.3-10 Male	4.3-10 Female	4.3-10 Male
Port DC/AISG	Female	Female	Male	Male
Frequency Range (MHz)	698-2700			
Insertion Loss (dB)	Port1 – Port2		≤ 0.3	
DC isolation (dB)	Port1 – Port2		>60	
	Port1 – Port DC/AISG		>60	
	Port2 – Port DC/AISG		/	
VSWR	≤ 1.25			
PIM3 (@2x43 dBm Carrier) (dBc)	≤ -160			
Power consumption(W)	0.6 typical			
Power handling (w)	Port1 or Port2 Port DC/AISG		$\leq 200W$ 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)	70x68.5x55.5
Weight (including connectors and mounting bracket) (kg)	0.7
Packing Size (mm)	200x120x90
Color	Light Gray (customized)
Connector	Port 1 Port 2 DC/AISG
	4.3-10 (F or M) 4.3-10 (F or M) RS485 (F or M,8-pin)

Environmental Specifications	
Operational Temperature (°C)	-40 to +65
Operational Humidity (%)	≤ 95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	3kA; 10/350 μs pulse

Smart Bias Tee

96620XX7



Outline Drawing

Application: Antenna-Feeder

96620387

Port1: Antenna(M)

Port2: Feeder(F)

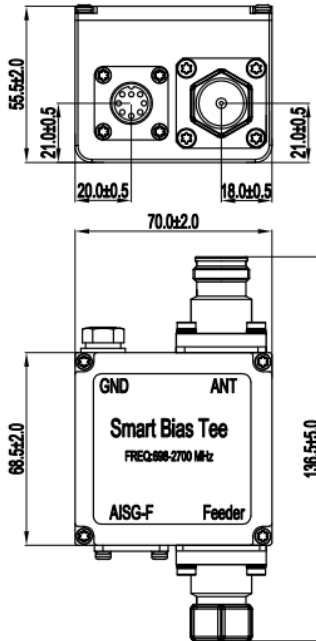
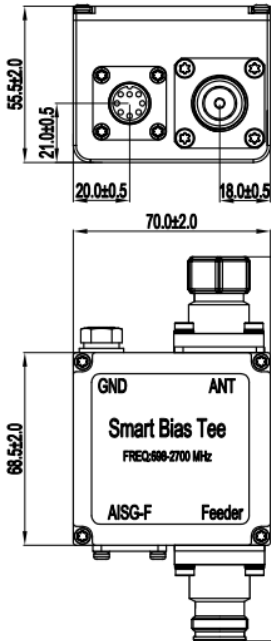
Port AISG: F

96620397

Port1: Antenna(F)

Port2: Feeder(M)

Port AISG: F



Application: BTS-Feeder

96620407

Port1: BTS(M)

Port2: Feeder(F)

Port AISG: M

96620417

Port1: BTS(F)

Port2: Feeder(M)

Port AISG: M

