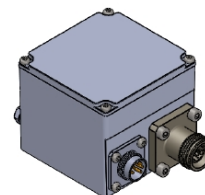




Smart Bias Tee - Top

698-3590 MHz

- Provides low RF signal insertion loss
- Features advanced lightning protection circuits
- Acts as surge protection for the BTS



Technical data

Frequency bands, MHz	698-3590
Return Loss @ RF port	698-2700 MHz: ≥ 20 dB 2700-3590 MHz: ≥ 18 dB
Insertion Loss, dB, @ passband	≤ 0.15 dB
PIM, dBc	160 Typical 155 Min
Input power	250 W @ 1850 MHz 500 W @ 850 MHz Max
BTS port ANT port DC/RCU port	$< 2.5A/+30VDC$
Power consumption	0.6W Typical
DC/RCU Port define	Pin1:+10V to +30V Pin6:+10V to +30V Pin3:RS485B Pin5:RS485A Pin7: DC return Pin1,Pin2,Pin4,Pin8:NC

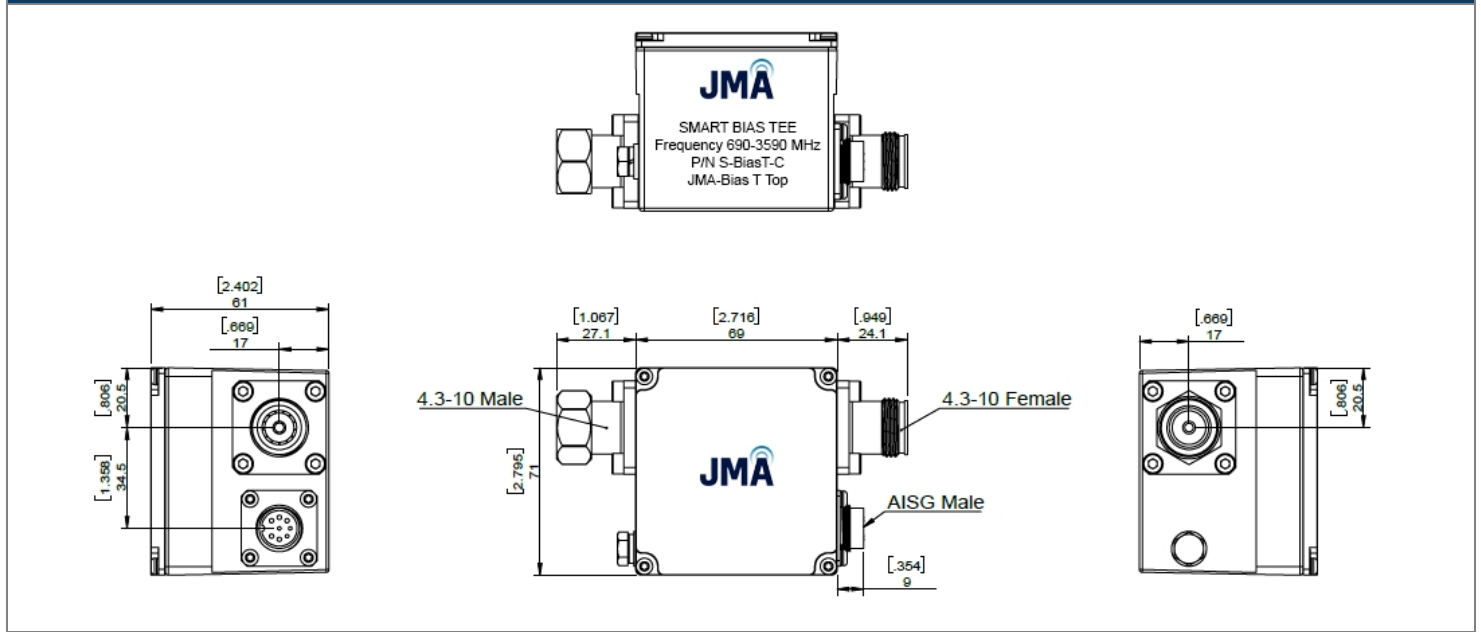
Mechanical specifications

Lightning protection	IEC61000-4-5, 10KA 8/20Us pulse
BTS port ANT port DC/RCU port	3KA 8/20uS pulse
Operating temperature range, °C	-40 to +65
Environmental sealing - housing	IP 67
Altitude, max, m	2600
AISG pass	Yes
MTBF, hours	>500,000
Weight, kg	≤ 0.75
RF connector torque	96 lbf-in (10.85 N·m or 8 lbf-ft)
RET connector torque	Min 0.5 N to max 1.0 N (hand pressure and finger-tight only)

Ordering information

Model	Description
S-BiasT-C	Smart Bias T used at the top of the feeder to communicate AISG via the antenna port

Mechanical outline drawing



	Port 1 (RF/DC/AISG)	Port 2 (DC BLOCK)	Port 3 (AISG/DC)	DC/AISG Port Location
Bias T-TOP	4.3-10 male	4.3-10 female	AISG 2.0 male	Close to Port 2