

# Atlantic Microwave

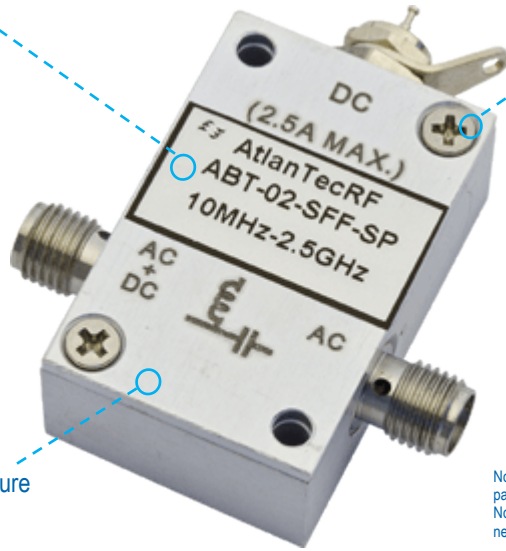
## Bias Tees

The ABT series of Bias Tees are 3-port devices which allow DC bias to be either added to or subtracted from an RF signal line without affecting the RF signal. These Bias Tees can be used in transmission systems to deliver DC power and RF signal to amplifier and frequency converter components using only one coaxial cable.

- Frequency up to 50GHz

 Operating frequency range

 3-port device



 Ultra Wide Temperature Range

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.  
 Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

General Specifications	
Impedance	50 ohms
SMA Connectors	Passivated Stainless Steel
Type N Connectors	Passivated Stainless Steel
2.92mm Connectors	Passivated Stainless Steel
2.4mm Connectors	Passivated Stainless Steel
BNC Connectors	Nickel Plated Brass
Conductors	Gold Plated Beryllium Copper
RoHS Compliant	

Model Number System			
Series	Frequency Range	RF Connector Type	XX = YY = DC Connector Type
ABT-	02 = 10MHz-2.5GHz	S = SMA	M = Male SP = Solder Post
	06 = 10MHz-6.0GHz	N = Type N	F = Female SF = SMA Female
	12 = 10MHz-12.0GHz	K = 2.92mm	BF = BNC Female
	18 = 50KHz-18.0GHz	E = 2.4mm	
	26 = 50KHz-26.5GHz		
	40 = 50KHz-40.0GHz		
	50 = 50KHz-50.0GHz		

Model No.	Frequency Range	Conn. Type	Insertion Loss (dB)		VSWR (:1)		Isolation RF to Bias port (dB) Typ.	DC Voltage (VDC)	DC Current (A)	RF Power (Watts)	Dimensions inches (mm) excluding connectors	
			Typ.	Max.	Typ.	Max.					Length (L)	Height (H)
ABT-02-SXX-YY	10MHz-2.5GHz	SMA	0.5	1.0	1.40	1.50	30	100	2.5	5	0.85	1.29
ABT-06-SXX-YY	10MHz-6.0GHz	SMA	0.5	1.25	1.40	1.50	30	100	2.5	5	0.85 (21.59)	1.29 (32.77)
ABT-12-SXX-YY	10MHz-12.0GHz	SMA	0.5	3.0	1.75	2.00	30	100	2.5	5	0.85 (21.59)	1.29 (32.77)
ABT-18-SXX-YY	50KHz-18.0GHz	SMA		1.5 (50KHz-18GHz)		1.80	30	25	0.75		0.63 (16.00)	1.20 (30.48)
ABT-26-SXX-YY	50KHz-26.5GHz	SMA		3.0 (18-26.5GHz)		1.80	30	25	0.75		0.63 (16.00)	1.20 (30.48)
ABT-02-NXX-YY	10MHz-2.5GHz	Type N	0.5	1.0	1.40	1.50	30	100	2.5	5	0.85 (21.59)	1.29 (32.77)
ABT-06-NXX-YY	10MHz-6.0GHz	Type N	1.0	1.25	1.40	1.50	30	100	2.5	5	0.85 (21.59)	1.29 (32.77)
ABT-12-NXX-YY	10MHz-12.0GHz	Type N	2.0	3.0	1.75	2.00	30	100	2.5	5	0.85 (21.59)	1.29 (32.77)
ABT-26-KXX-YY	50KHz-26.5GHz	2.9mm		1.5 (50KHz-8GHz)		1.80	50 (250KHz-26.5GHz)	25	0.75	1	0.63 (16.00)	1.20 (30.48)
				3.0 (18-26.5GHz)								
ABT-40-KXX-YY	50KHz-40.0GHz	2.9mm		1.5 (50KHz-18GHz)		1.80	30 (100KHz-40GHz)	25	0.15	1	0.63 (16.00)	1.20 (30.48)
				3.0 (18-40GHz)								
ABT-50-EXX-YY	50KHz-50.0GHz	2.4mm	0.5 (100KHz)	1.5 (50KHz-18GHz)		1.80	50 (250KHz-26GHz)	25	0.15		0.63 (16.00)	1.20 (30.48)
				3.0 (18-40GHz)			30 (100KHz-50GHz)					
				4.0 (40-50GHz)								

