

## Ka-Satcom Band Directional Couplers



### Electrical

**RF Connectors:** SMA(F), 2.92mm(K-Type) F

**RF Power:** 20W Average, 3kW peak

**Coupling:** 10, 20, 30 dB Std., other values available

### Mechanical

**Construction:** Stripline design

**Connectors:** Stainless Steel

**Operating Temp:** -55°C to +110°C

**Finish:** Unique corrosion resistant 316 stainless steel epoxy coating IAW MIL-F-14072

**Applicable Mil-Specs**

**General:** see ATM Mil-Spec reference

ATM units are designed, manufactured and tested in accordance with applicable military and F.A.A. standards for reliability, performance and quality. In order to assure product quality and reliability, appropriate inspections and tests are made, controls exercised and data gathered to insure customer satisfaction.

The following MIL standards are utilized for all in process controls and final inspection procedures: MIL-I-45208, MIL-S-454, MIL-S-202, MIL-S-883 and MEL-S-750.

Our units will **meet** operating specifications across the temperature range of -55degrees C. to +100 degrees C. **MIL-STD-202**

Freq. (GHz)	Coupling (dB)	Freq. Sens. (+/- dB)	Direc. (dB min.)	Insertion Loss (dB)		VSWR max		Model No.	Outline Dwg.
				Excluding Coupling	True	Main	Sec.		
<b>18.3 - 20.2</b>	10+/-0.50	0.25	13	0.50	1.20	1.60	1.50	C118ka-10	Fig X Fig X
	20+/-0.50	0.25	18	0.50	0.55	1.25	1.50	C118ka-20	
	30+/-0.50	0.25	20	0.50	0.50	1.25	1.50	C118ka-30	
<b>18.3 - 31.0</b>	10+/-	0.40	12	0.90	1.50	1.70	1.70	C11ka-10	Fig X Fig X Fig X
	20+/-	0.40	12	1.25	1.30	1.70	1.70	C11ka-20	
	30+/-	0.70	12	1.00	1.00	1.70	1.70	C11ka-30	
<b>27.5 - 31.0</b>	10+/-	0.40	12	0.90	1.50	1.70	1.70	C119ka-10	Fig X Fig X Fig X
	20+/-	0.40	12	1.25	1.30	1.70	1.70	C119ka-20	
	30+/-	0.70	12	1.00	1.00	1.70	1.70	C119ka-30	