

# Hybrids

2-18 GHz

## Ultra-Broadband 180° and 90° Hybrids

- Smallest Size and Weight
- Multi-Octave Bandwidth
- Excellent Phase Balance
- Low VSWR
- High Isolation
- Rigid Construction Resists Shock and Vibration
- Operational to 105°C without Degradation (125°C storage)



### Specifications

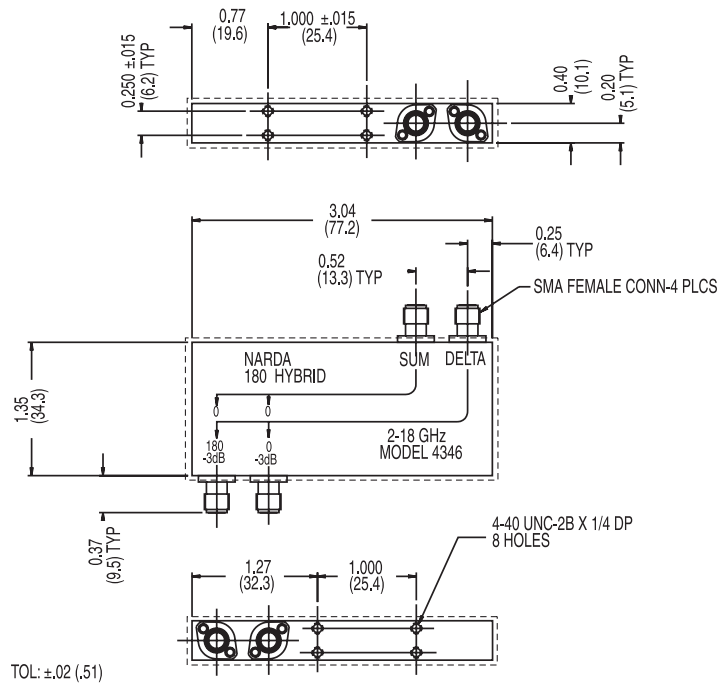
180°, SMA (F), 2 to 18 GHz, 30 W

FREQUENCY RANGE (GHz)	MODEL	NOMINAL COUPLING (dB)	VSWR (max.)	INSERTION LOSS (max.)		ISOLATION (dB min.)	AMPLITUDE BALANCE (dB)	PHASE BALANCE		POWER		WEIGHT	
				2-8	8-18			2-8	2.5-18	AVERAGE (W)	PEAK (kW)	oz.	gr.
2-18	4346	3	1.6	2.3		18	±0.8	±15°	±12°	30	3	2.89	82

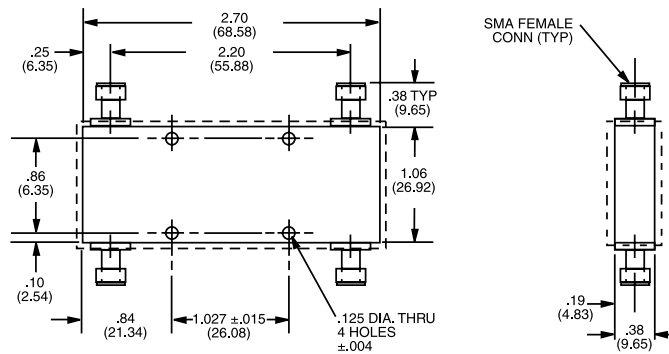
90°, SMA (F), 2 to 18 GHz, 30 W

FREQUENCY RANGE (GHz)	MODEL	NOMINAL COUPLING (dB)	VSWR (max.)	INSERTION LOSS (max.)		ISOLATION (dB min.)		AMPLITUDE BALANCE (dB)	PHASE BALANCE	POWER		WEIGHT	
				2-8	8-18	2-8	8-18			AVERAGE (W)	PEAK (kW)	oz.	gr.
2-18	4356B	3	1.5	0.6	1.0	20	17	±0.75	±7°	30	3	2.3	65

Outline Drawings



MODEL 4346



MODEL 4356B

Allow .020 for sealant build-up per surface.  
Dimensions in inches (mm in parentheses), unless otherwise specified.