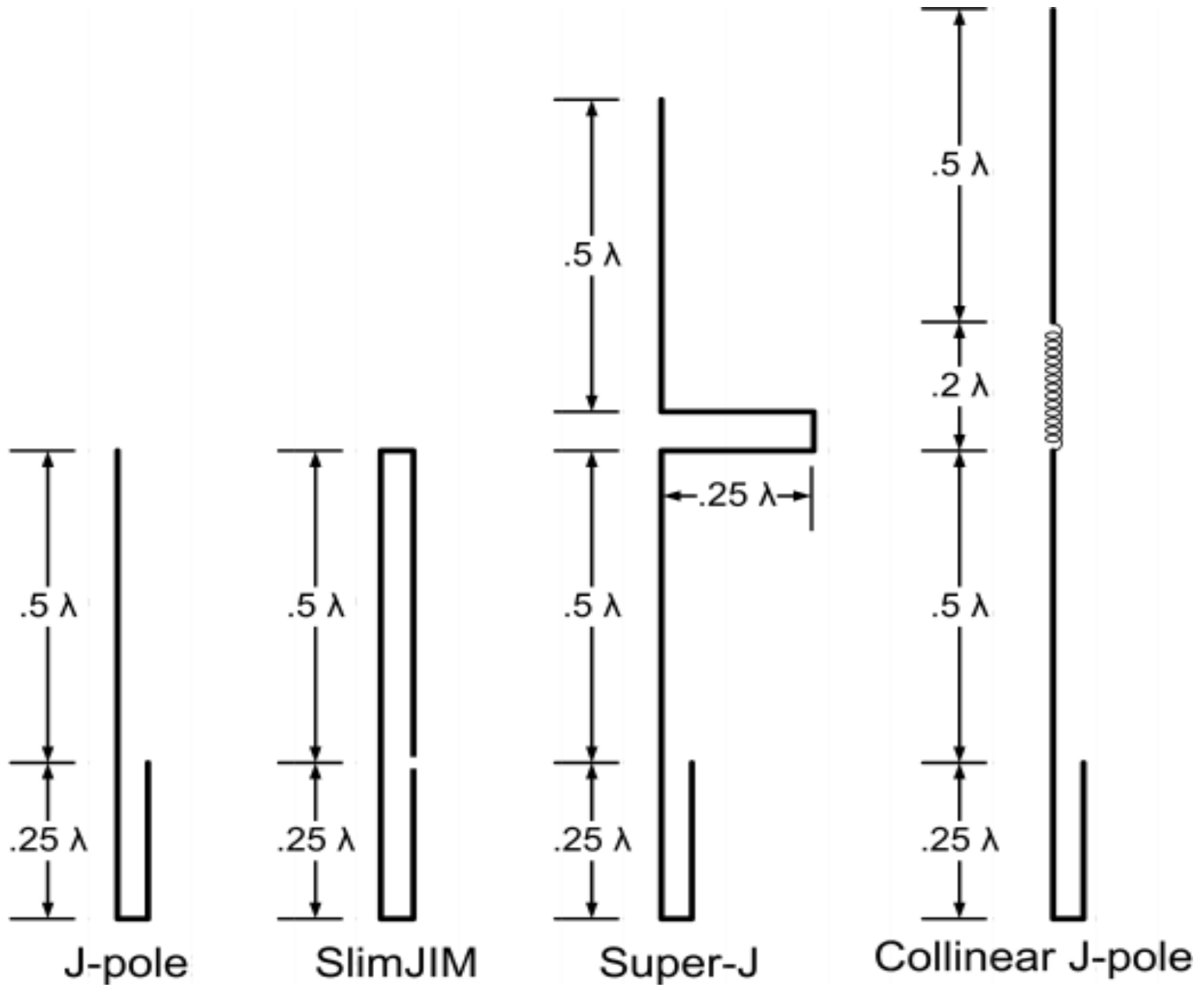
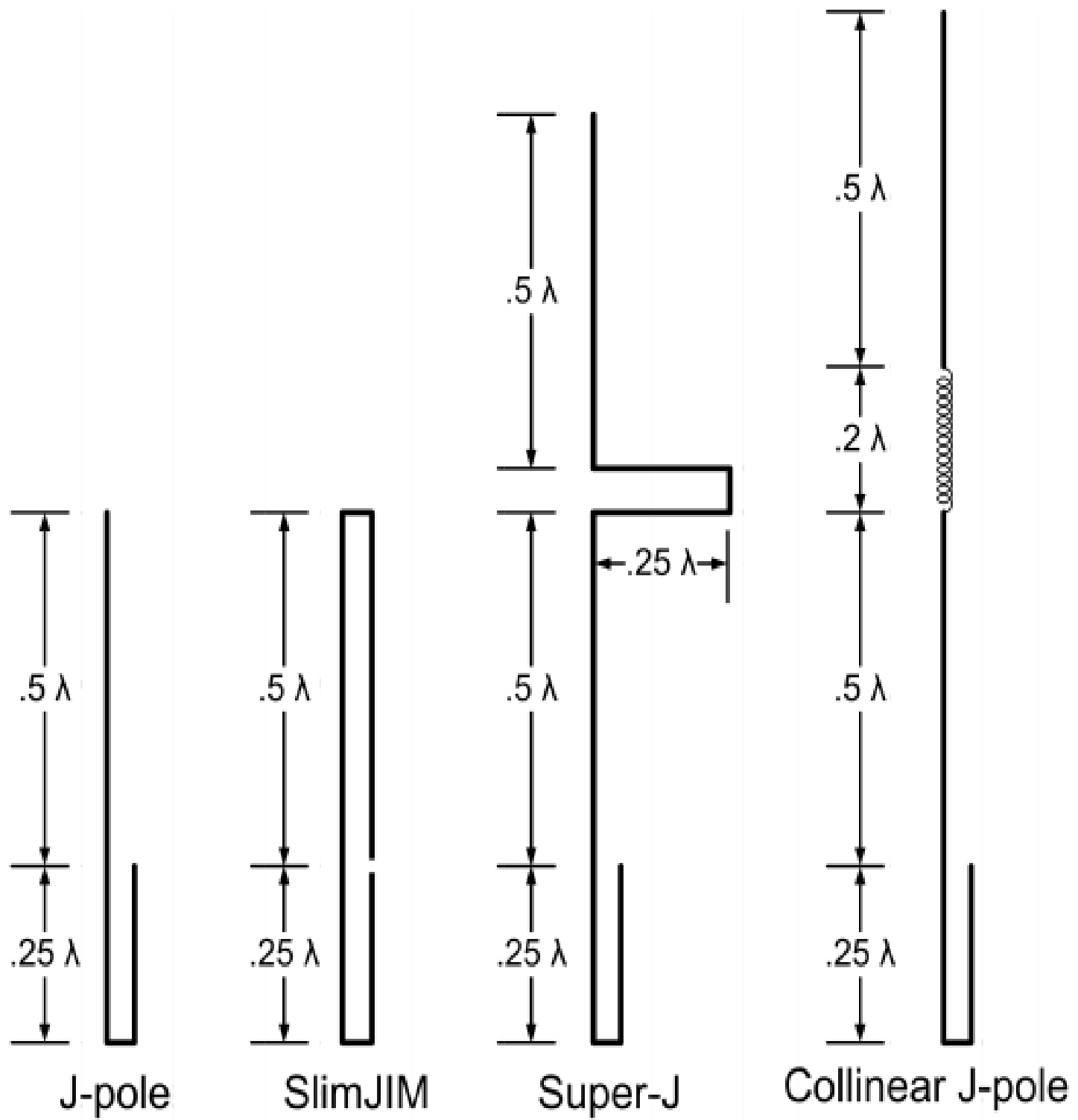


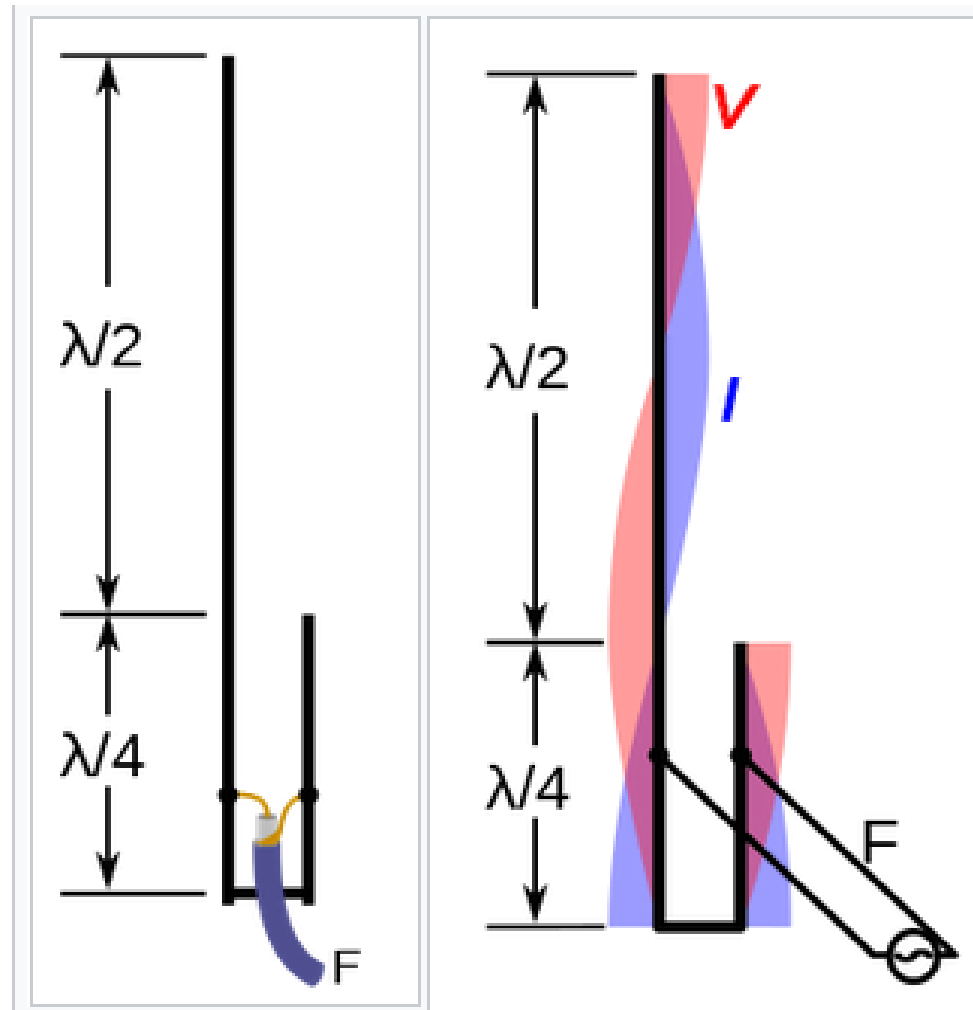
The J-Pole Antenna



The Good Points

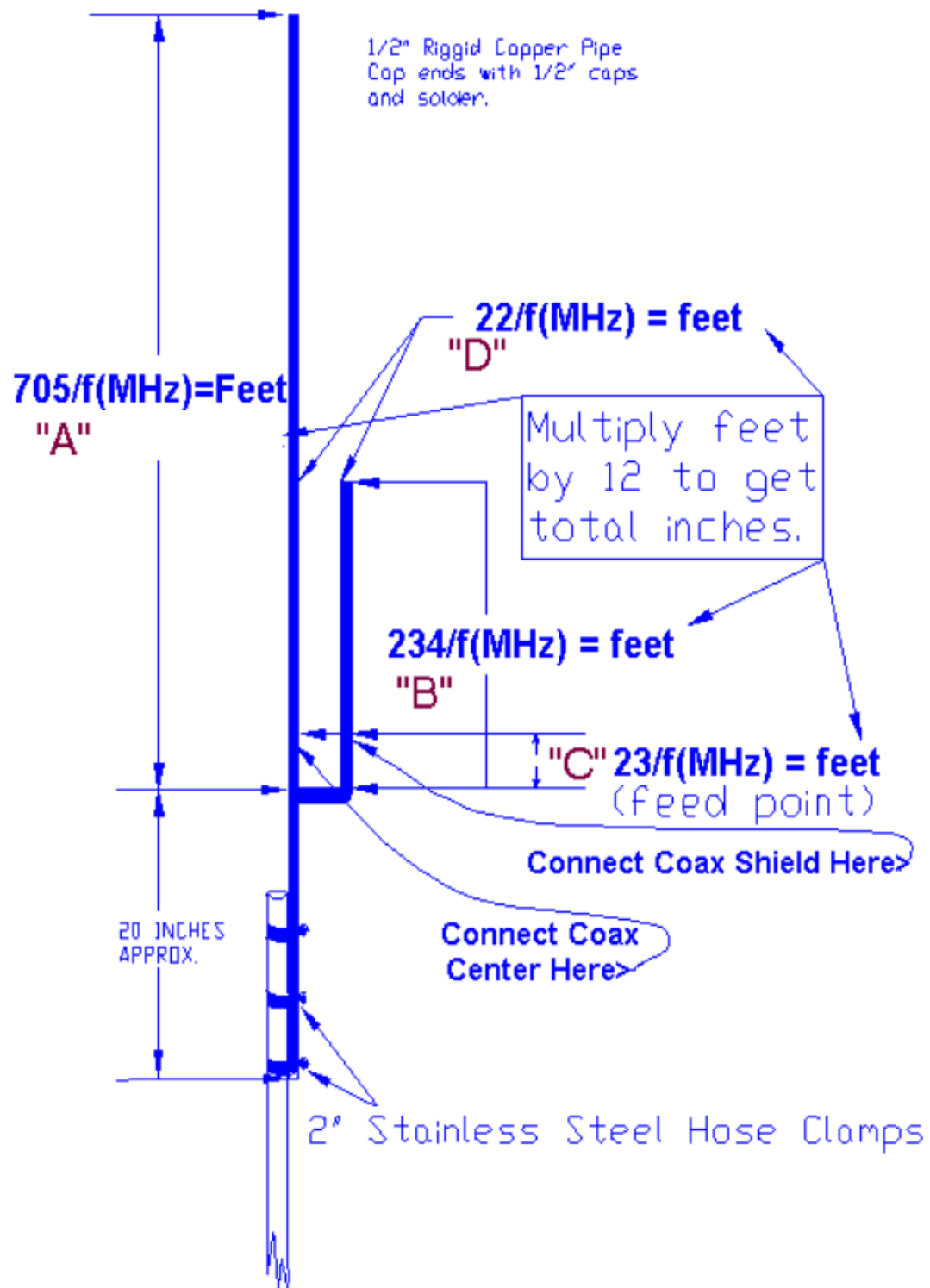
- Effective
- Easy to build
- End-fed omni half-wave antenna?*
- Matches to the coaxial feedline w/ quarter-wave stub
- *Help me with this





On left, J-pole fed by coaxial line, such as 50-ohm RG-8 type coax.

On right, J-pole fed by balanced line such as 300- or 450-ohm twin lead.



<https://www.hamuniverse.com/jpole.html>

Frequency = 146.00 MHz

A (Long section) dimension is: **feet,** **inches,**
 meters

B (Short section) dimension is: **feet,** **inches**
 meters

C (Feed point) dimension is: **feet,** **inches**
 meters

D (Spacing) dimension is: **feet,** **inches,**
 meters

*Inside (spacing) dimensions are metal to metal measurements, **NOT** center to center.*

Frequency = 28.5 MHz

A (Long section) dimension is: **feet**, **inches**,
 meters

B (Short section) dimension is: **feet**, **inches**
 meters

C (Feed point) dimension is: **feet**, **inches**
 meters

D (Spacing) dimension is: **feet**, **inches**,
 meters

*Inside (spacing) dimensions are metal to metal measurements, **NOT** center to center.*

Is the j-pole a . . .

- Variant of the Zeplin antenna commonly know as the Zepp

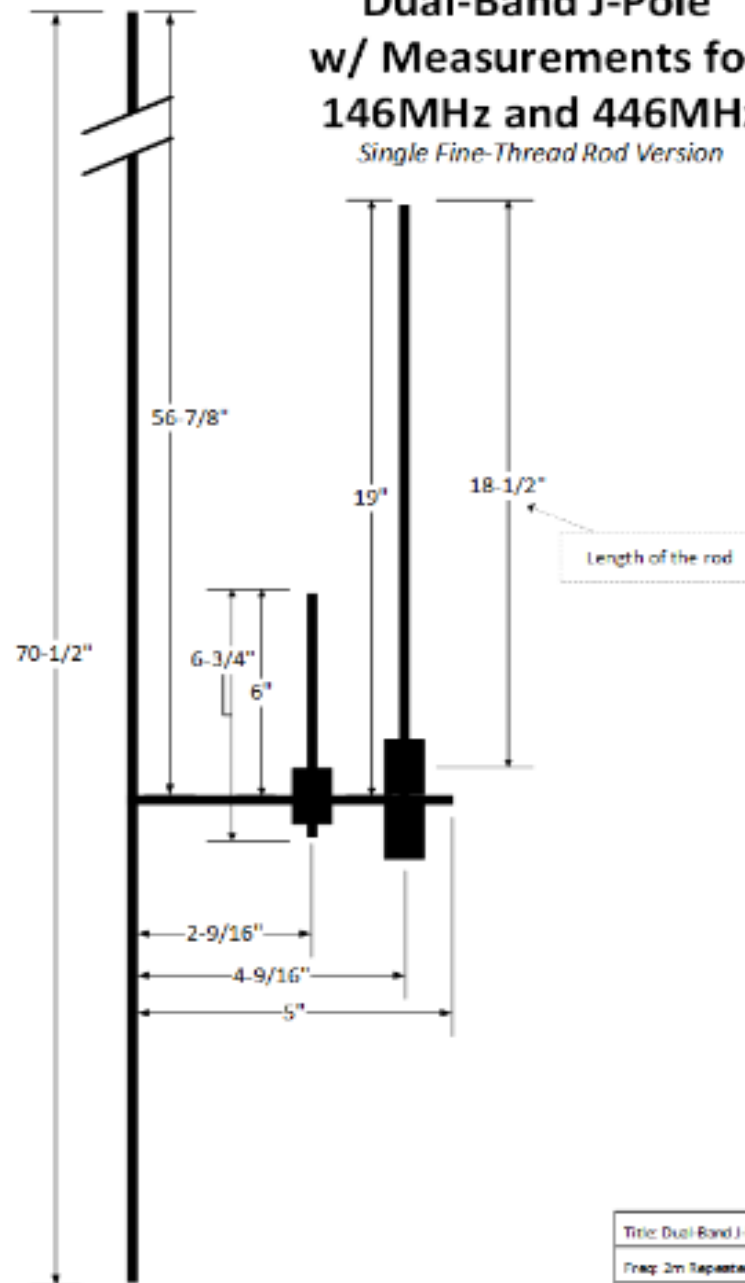
Or

- Variant of the Windom Off-center fed dipole?

J Pole antennas will operate at harmonics of the fundamental design frequency.

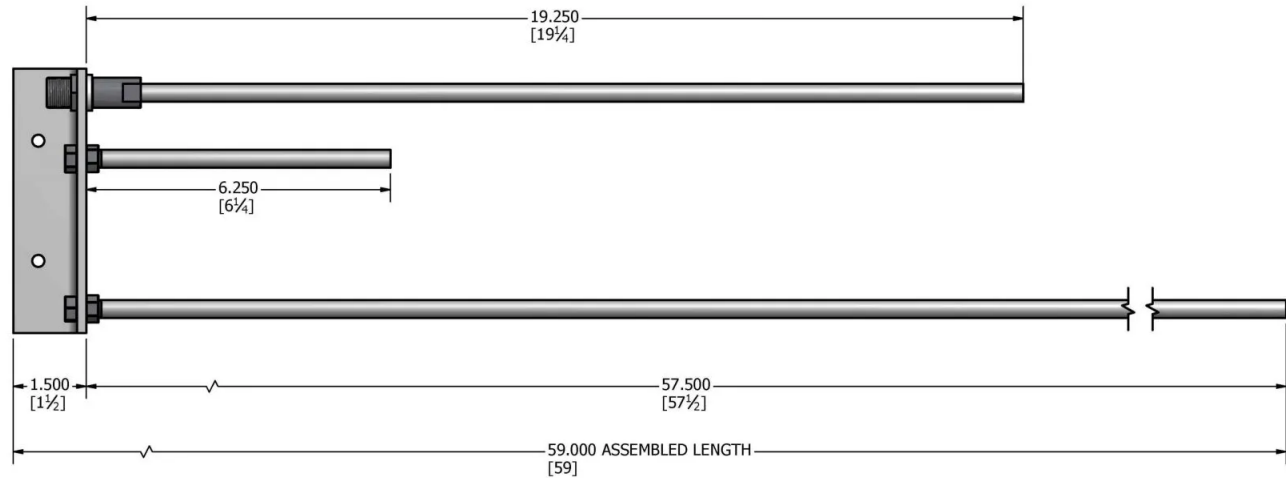
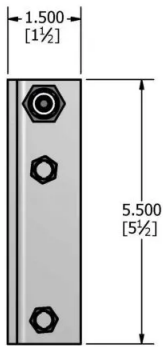
But we can do better. Introducing the dual-band j-pole.

Dual-Band J-Pole w/ Measurements for 146MHz and 446MHz *Single Fine-Thread Rod Version*

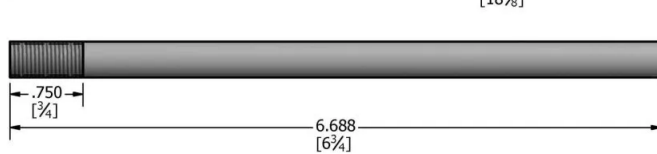
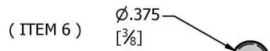
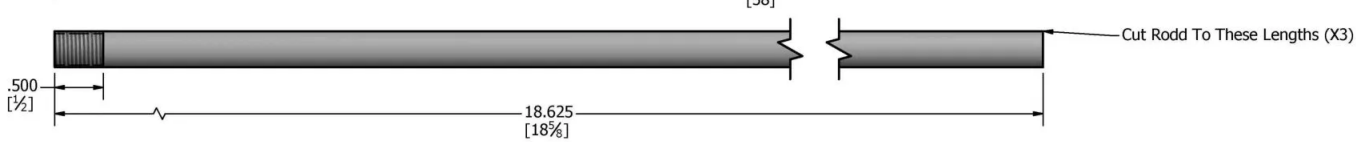
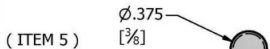
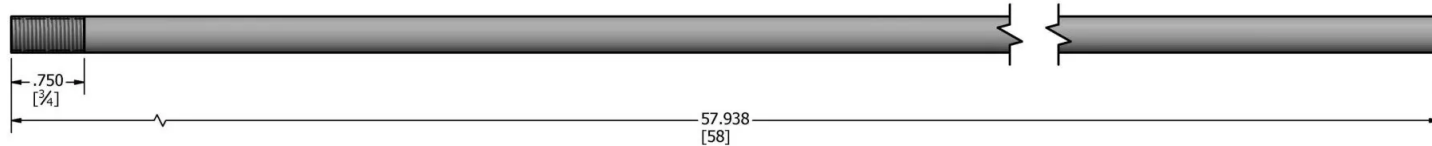
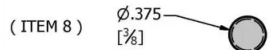


Note: Dimensions are not to scale for clarity of the drawing

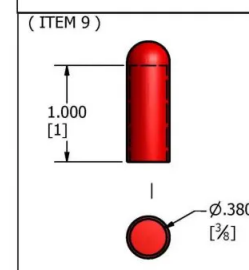
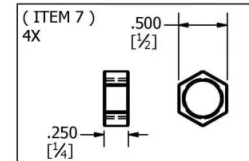
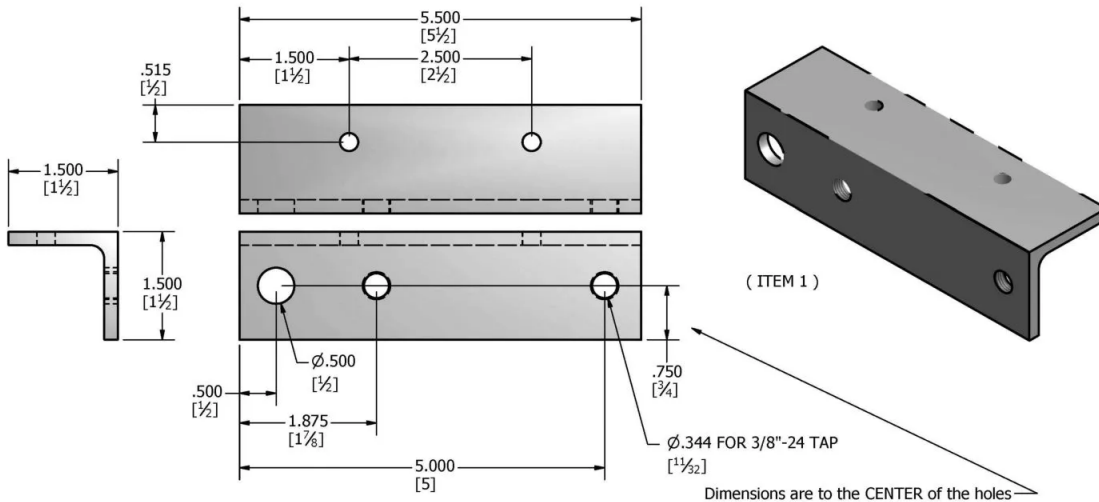
Title: Dual Band J-Pole
Freq: 2m Repeater, 70cm Repeater
Author: Jason McCormick N8EJ
Date: 2021-02-20
Revision: 2



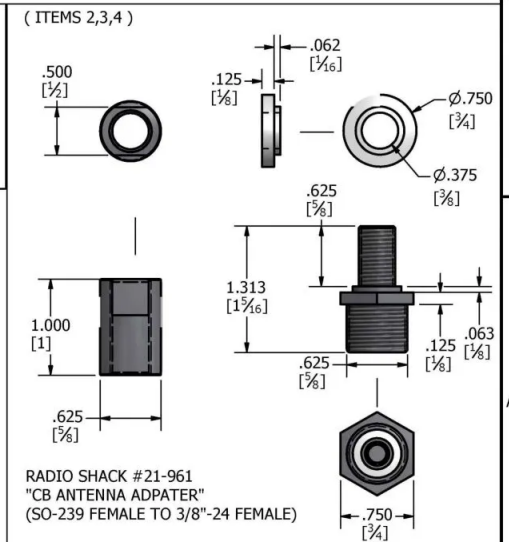
ASSEMBLED DIMENSIONS
(Shown Without Optional Protective Caps)



Edited By: Jeffrey Bail - NT1K
<http://www.NT1K.com>



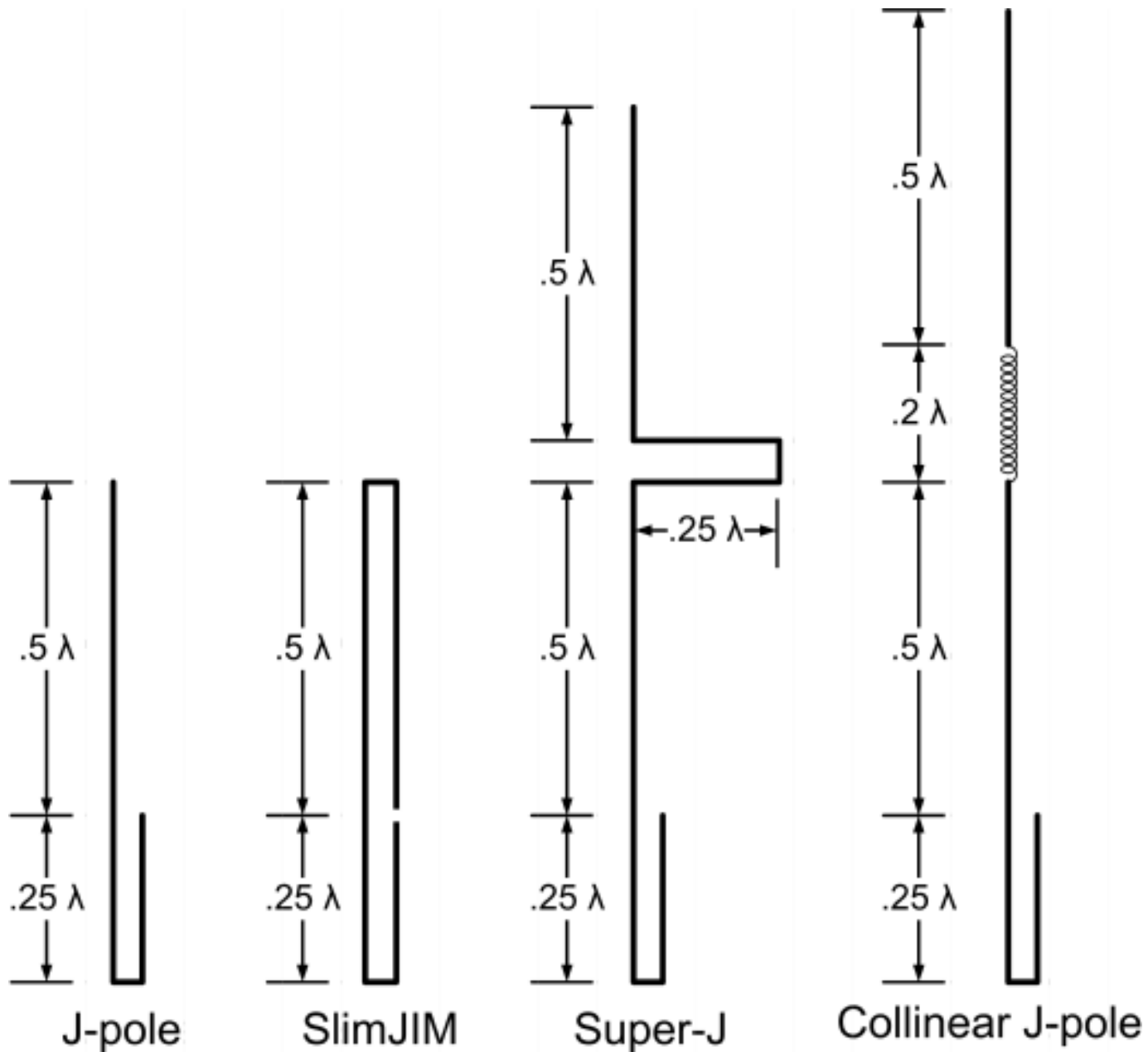
Pliable Vinyl Cap
McMaster Carr # 9753K42



RADIO SHACK #21-961
"CB ANTENNA ADAPTER"
(SO-239 FEMALE TO 3/8"-24 FEMALE)



A Few Words About Antenna Patterns



Tot-gain [dBi]
Norm-All : 5.52 dBi
146 MHz

Vertical plane

