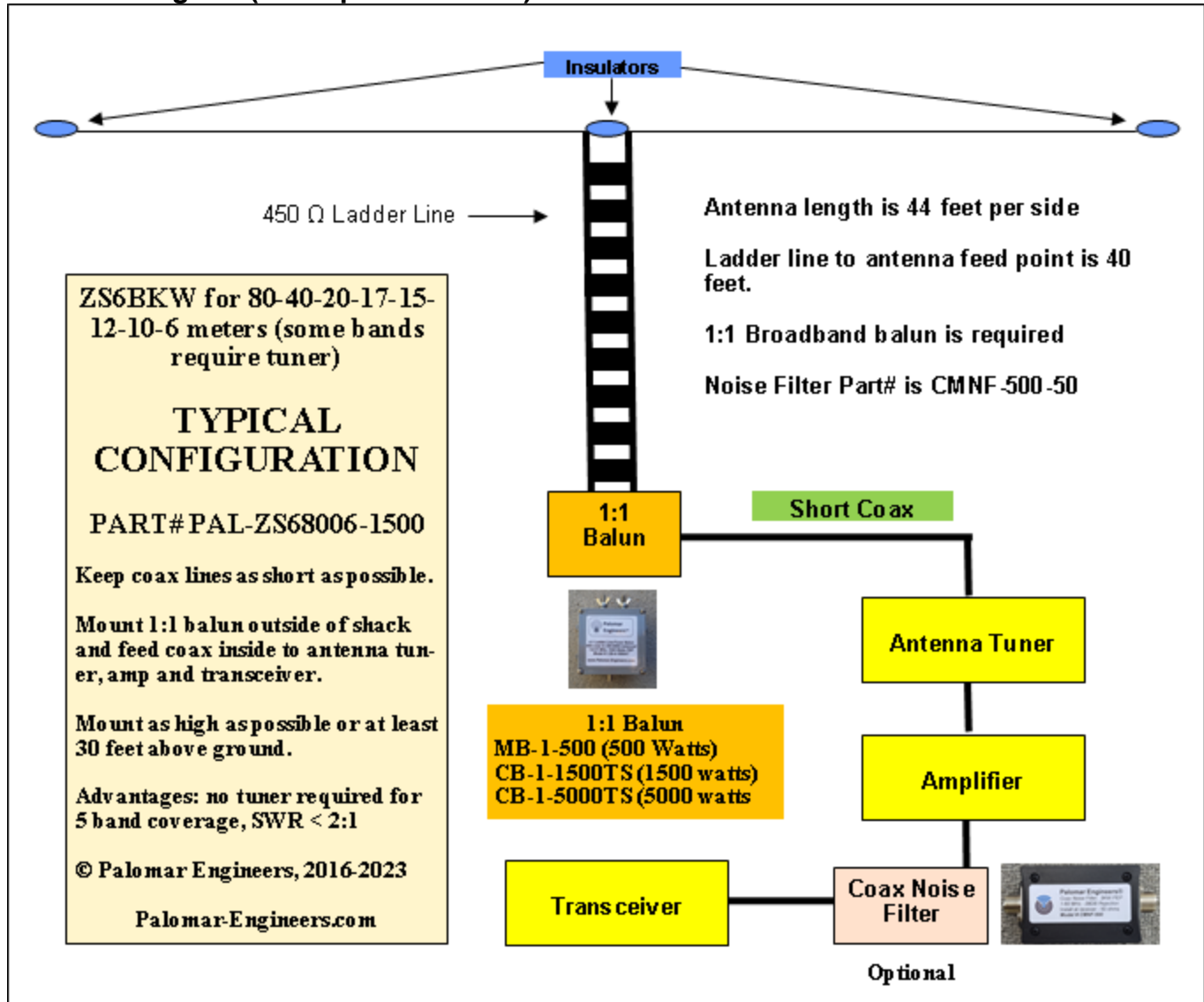


Installation Diagram (with optional extras)



ZS6BKW antennas are very convenient as they will allow multiple bands of operation with a simple wire antenna which is fed in the center and is only 88 feet wide and still works 80 meters (with a tuner) as opposed to a much longer 135 foot 80 meter dipole.

Installation

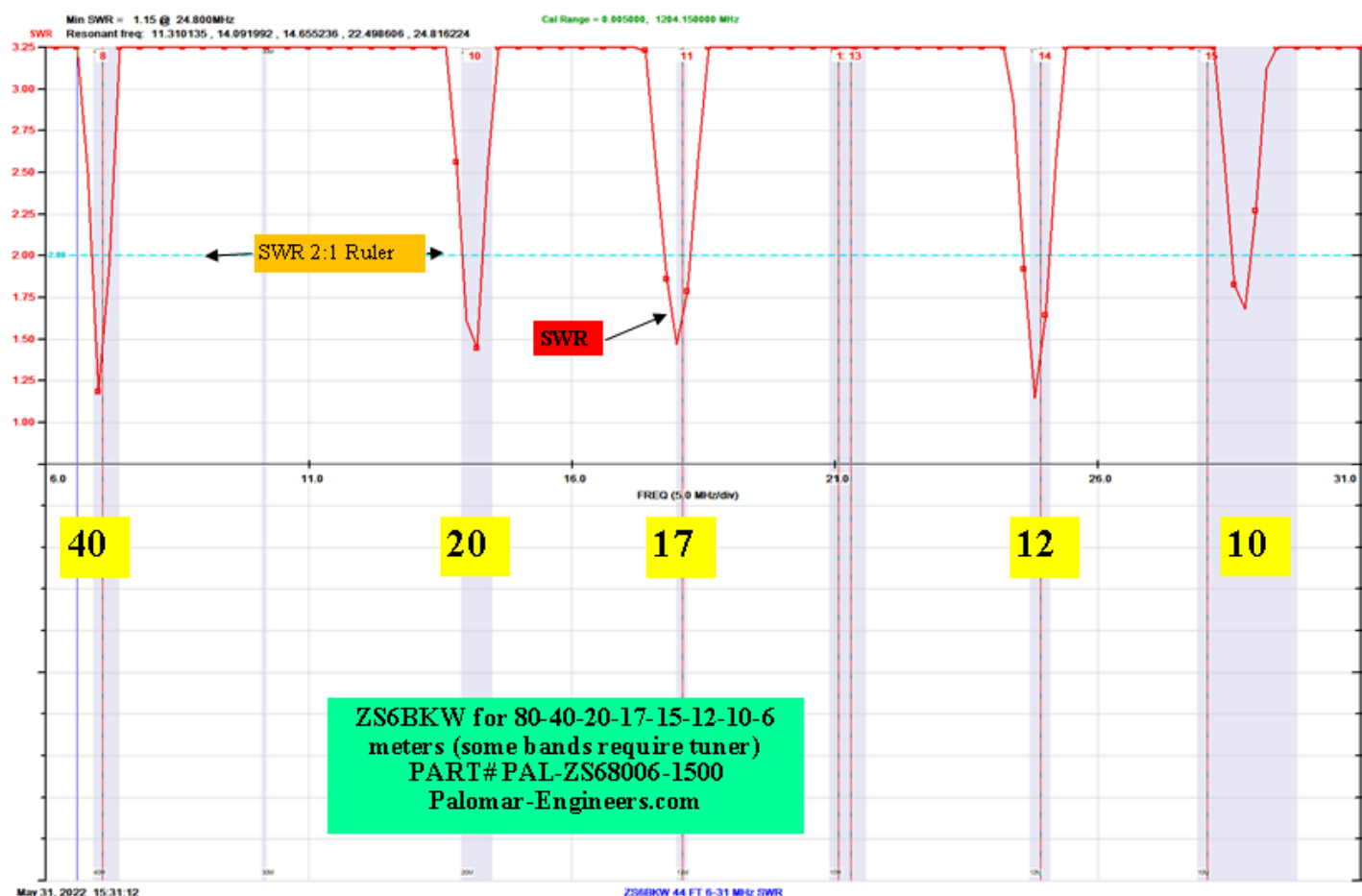
For best results support center at 30+ feet and ends over 15 feet. Angle of feed each side must be great than 45 degrees or 120 – 180 degrees total between each side preferred. Feed line is 40 feet

and goes to the ladder line to coax interface balun. Due to local ground conditions, antenna height and feed line length, SWR may vary from samples shown and an antenna tuner may be required or some bands to bring SWR at end of feed line to acceptable levels. The ZS68006 is rated at 500, 1500 or 5000 watts PEP depending upon the size of the balun used for the ladder line to coax interface. You may upgrade to a higher power rating by simply changing the balun for a higher power one.





Antenna Length Note: These antennas are shipped from the factory with each side at 46 feet long (92 feet total) so that you may adjust (shorten) the length for your personal installation. The SWR graph shown below is for a side length of 44 feet as this length provides a lower SWR in the 17 meter band. The longer 46 foot length tend to shift the SWR curves to the left (lower frequency) which can sometimes be offset by reducing the length of the ladder line (up to 2 feet max). Each installation is unique – try the antenna lengths as received and shorten the wire length by bending back the wires on themselves at the ends as needed.

Use an antenna tuner for 80, 30, 15 meters and reduce power if balun saturation occurs.

Typical SWR curves through 20 feet of RG-213 connected to the balun and 30 foot average height (Your curves may be different depending on terrains, ground conditions and surrounding object/antennas) is shown below for 44 feet per side, 40 feet of ladder line:



Additional components

 <p>Ladder Line Dipole Center Insulator</p> <p>Part# LLDCI</p> <p>Palomar-Engineers.com</p> <p>Ladder line and wire NOT INCLUDED</p>	 <p>Palomar Engineers MB-1-500 Balun connected to 450Ω ladder line used on ZS6BKW antenna</p>
Center Insulator/Halyard Hang	500 watts PEP Balun (MB-1-500-50)
 <p>PALOMAR ENGINEERS® RFI Solutions from KHz to GHz</p> <p>1:1 CUBE™ Balun CB-1-1500 50Ω input to 50Ω balanced 1.8-61 MHz, 1500 Watts PEP Choking Z: 1K-6KΩ</p> <p>Palomar-Engineers.com</p>	 <p>PALOMAR ENGINEERS® RFI Solutions from KHz to GHz</p> <p>CB-1-5000AT CUBE™ Balun 50Ω input to 50Ω balanced 1.8-61 MHz, 5000 Watts PEP Choking Z: 1K-6KΩ</p> <p>Palomar-Engineers.com</p>
CB-1-1500TS (1.5KW PEP Balun)	CB-1-5000TS (5KW PEP Balun)

BEFORE YOUR START CAUTION

WARNING: INSTALLATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY FOLLOW THE INSTALLATION INSTRUCTIONS.

WARNING: AT NO TIME DURING ASSEMBLY, INSTALLATION, ADJUSTMENT OR OPERATION SHOULD ANY PART OF THIS PRODUCT BE ALLOWED TO COME INTO CONTACT WITH ELECTRIC POWER LINES, NOR SHOULD THIS PRODUCT BE INSTALLED IN SUCH A WAY THAT ANY PART OF IT MAY CONTACT POWER LINES DURING NORMAL OPERATION OR IN THE EVENT OF STRUCTURAL FAILURE. FAILURE TO EXERCISE EXTREME CARE IN THIS MATTER CAN RESULT IN DAMAGE TO PROPERTY, PERSONAL INJURY, OR DEATH.

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