**MY BIFILAR COMMON MODE CHOKES**

 **WØLEV 23 JAN 2021**

 **MATERIAL and CONSTRUCTION**

 **31 31(GRN) 31 43 (GRN) 73 43 (BRN) 31 31 43 31 31**

 **2x2.4” 2x2.4” 5x2.4” 2x2.4” 2x2.4” 2x3” 1x2.4” 2x2.4” 2x3.0” 2x4.0”**

 **15t 13t 14 t 13t 13t 10 t 12 t 18t 10t 22t**

 **#14strd #14strd #14strd #12 strd #14 strd #10 strd #14 sstrd #12 solid #12 solid #12 solid**

 **Spaced**

 **windings**

**BAND DM LOSS (dB) / CM Res (Ω)**

**160 -0.07 dB -0.06 dB -0.12 dB -0.06 dB -0.07 dB -0.07 dB -0.03dB -0.04 dB -0.05 dB -0.08 dB**

 **13.5 k 6.10 k 9.7k 1.5 k 7.0k 2.6 k 3.0k 15.0k 2.2 k 6.0 k**

**75 -0.14 dB -0.12 dB -0.2 dB -0.13 dB -0.15 dB -0.16 dB -0.07 dB -0.05 dB -0.09 dB -0.12 dB**

 **7.45 k 7.5 k 4.3 k 3.8 k 11.6 k 4.7 k 4.2 k 6.7 k 4.2 k 3.1 k**

**40 -0.38 dB -0.36 dB -0.6 dB -0.37 dB -0.43 dB -0.48 dB -0.15 dB -0.11 dB -0.26 dB -0.25 dB**

 **3.98 k 4.60 k 2.4 k 11.1 k 5.2 k 7.1 k 4.5 k 4.1 k 7.6 k 1.7 k**

**30 -1.0 dB -0.98 dB -1.2 dB -1.0 dB -1.0dB -1.3 dB -0.57 dB -0.29 dB -0.76 dB -0.50 dB**

 **3.00 k 4.30 k 1.8 k 13.4 k 3.7 k 5.1 k 4.4 k 3.5 k 8.0 k 1.8 k**

**20 -1.5 dB -1.5 dB -1.6 dB -1.4 dB -1.5 dB -1.8 dB -1.0 dB -0.33 dB -1.1 dB -0.49 dB**

 **2.30 k 3.7 k 1.4 k 8.1k 2.7 k 3.4 k 4.1 k 2.9k 7.9 k 1.1 k**

**17 -1.9 dB -2.1dB -1.7 dB -2.1 dB -1.9 dB -2.4 dB -1.4 dB -0.36 dB -1.5 dB -0.51 dB**

 **1.9 k 4.3 k 1.2 k 5.7 l 2.2 k 2.7 k 3.8 k 2.7 k 7.1 k 980**

**15 -2.2 dB -2.4 dB -1.4 dB -2.5 dB -2.1 dB -2.8 dB -1.8 dB -0.32 dB -1.7 dB -0.79 dB**

 **1.70 k 3.3 k 1.1 k 3.2 k 2.0 k 2.3 k 3.5 k 2.6 k 4.8 k 856**

**10 -2.1 dB -2.7 dB -0.64 dB -2.8 dB -1.8 dB -2.9 dB -2.5 dB -0.57 dB -1.6 dB -2.6 dB**

 **1.31 k 1.3 k 845 3.4 k 1.6 k 1.4 k 3.0 k 1.9 k 1.3 k 1.0 k**

**50 -1.5 dB -0.9 dB -3.4 dB -0.18 dB -2.3 dB -0.81 dB -2.5 dB -1.0 dB @ 31.4 M -1.33 dB**

 **538 792 322 796 605 495 954 -2.0 dB @ 35.2 MHz 487 Ω**

 **-3 .0 dB @ 38.3 MHz**

 **635 Ω**

 **-1.8 dB**

 **592 Ω**

**#14 strd: DavisRF #14 Stranded ‘antenna” wire**

**GRN: #14 stranded, green insulation unknown insulation composition**

**All measurements are made in a calibrated 50-ohm system using the HP 8753CAll CMCs are wound in bifilar manner with no twists or core cross-overs. **