MOOSE JAW AMATEUR RADIO CLUB

TESTING DATA FOR: TYPE 43 CORE: 5943002701

SIZE: 1.4" (35.55MM) OD. PRICE: $4.85 IN 2025

USE CASES: CHOKE & TRANSFORMER

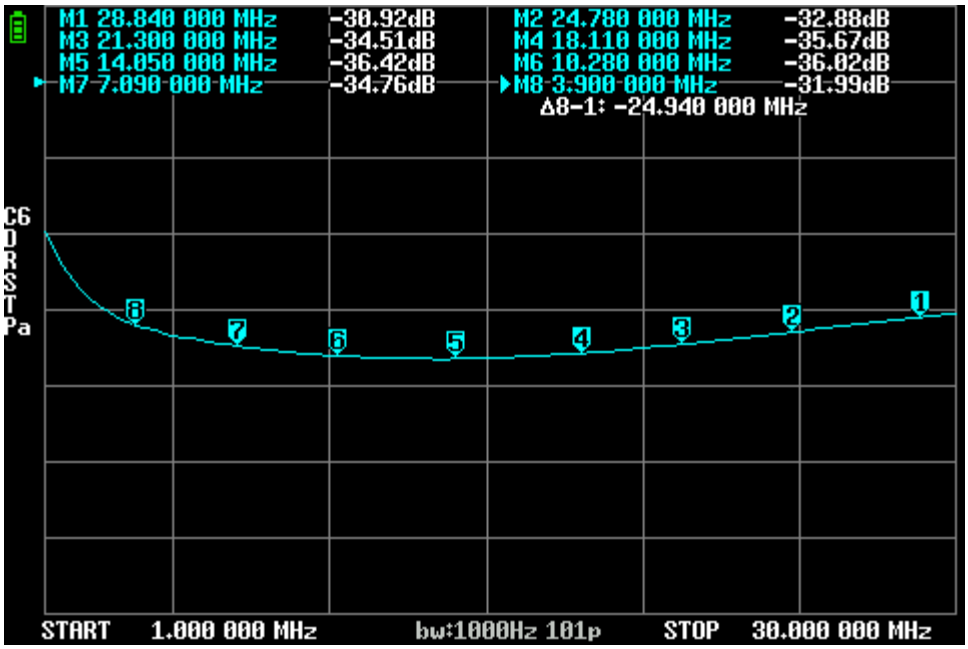
Testing Notes: All tests have been done with a NanoVNA calibrated with alligator clip leads. These are all S21 THRU LOGMAG measurements to determine how much attenuation the core provides for isolation and hindering common mode current.

Best Result:
12 Turns of 18awg solid core wire with a cross-over pattern.
Average: -34dB from 80m-10m Bands.

This core is a stunning performer as a common mode current choke. It has an extra attenuation bump on the most commonly used bands as compared to a Type 31.

TEST 1: 12 TURNS 18AWG SOLID CORE WIRE WITH A CROSS-OVER PATTERN

Average Loss: -34dB



CONCLUSION:

The Type 43 5943002701 core is excellent as a common mode current choke. Testing of this core was limited to the 12 turns cross-over pattern because of its incredible performance. Aside from the 160m band, this core is highly recommended in place of a Type 31 for suppression.

-30dB is the gold standard for attenuation and both this core as well as the Type 31 2631801202 core at 1.142” outside diameter easily hit this target across the HF Amateur bands (excluding 160m). This Type 43 offers a 2.75dB advantage over the Type 31 however this is not even 50% of an S-unit. This may or may not be perceivable in a real-world application.

Unless you need the size advantage of the Type 31 core for compact antenna builds, the greater attenuation of the Type 43 core is always desirable.

VE5REV 73 20250215-V1