



21-80-49
CONTIGUOUS DIPLEXER
30-90 / 90-520 MHz

FEATURES

- **Rugged Construction.**
- **Designed to MIL-STD-810.**
- **Suitable for ground and airborne use.**
- **Fully Environmentally sealed.**
- **Continuous coverage for 30-520 MHz with two separate radios**



The 21-80-49 is a diplexer having a negligible “dead” bandwidth between upper and lower frequency bands which crossover at 90 MHz. Low insertion loss and VSWR combined with reasonable isolation enable separate 30-90 and 90-520 MHz radio outputs to be connected to a single wideband antenna such as to provided continuous frequency coverage over the whole 30-520 MHz band. Only at the 90 MHz crossover point plus a few MHz either side of it does insertion loss and VSWR rise and isolation reduce. See graphs showing typical values.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

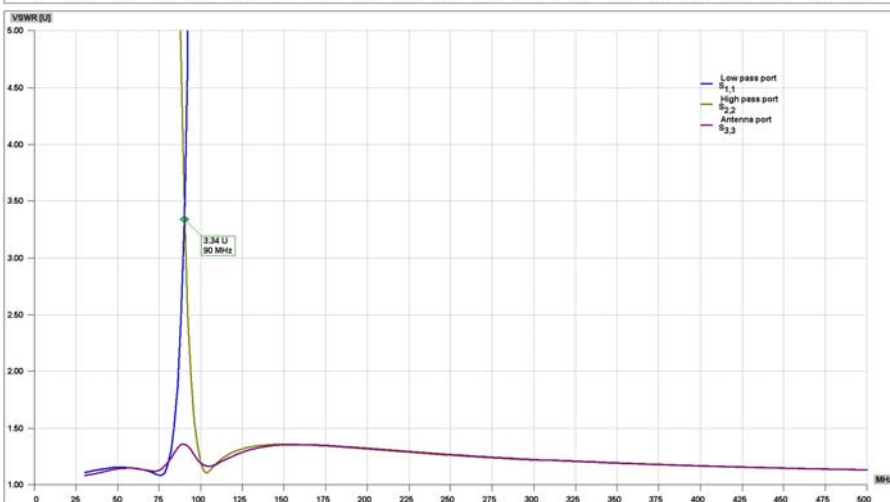
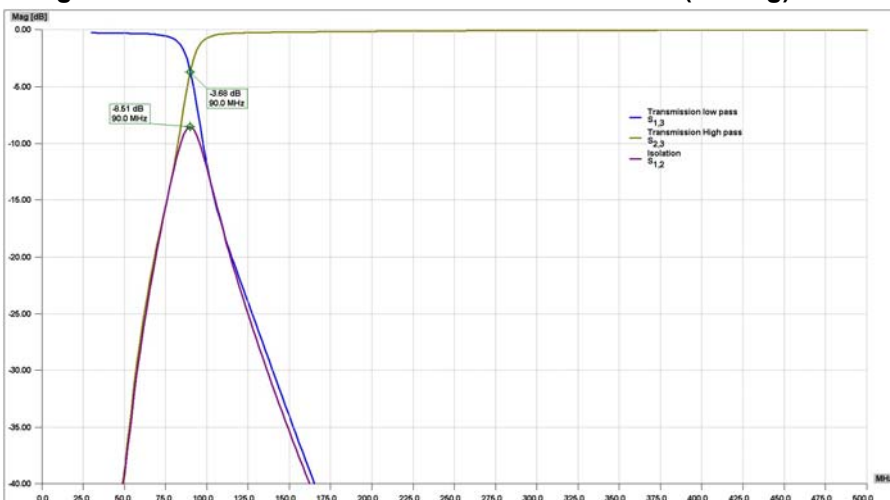
SPECIFICATIONS

Cooper Antennas Model 21-80-49

Contiguous Diplexer

SPECIFICATION

Frequency Ranges	30-90/90-520 MHz
Isolation	≥ 7 dB @ crossover (90 MHz) ≥ 20 dB 75/108 MHz ≥ 50 dB 30-60/130-520 MHz
Insertion Loss	≤ 0.25 dB 30-70/118-520 rising to 3.75 dB maximum @ 90 MHz
VSWR	≤ 1.5:1 30-80/100-520 MHz rising to ≤ 3.5:1 @ 90 MHz
Connector	3 off TNC Female
Power	50 Watts PEP
Max Dimensions (excluding connectors)	4.5 x 3.0 x 1.2 inches (115 x 77 x 31 mm)
Weight	0.7 lbs (0.32 kg)



Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change. Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.