

SPECIFICATIONS

USABLE BANDWIDTH:

VHF	120 to 230 MHz
UHF	320 to 500 MHz

CROSSOVER FREQUENCY:

VHF	235 MHz
UHF	310 MHz
Center	283 MHz

SUPPRESSION:

VHF at 430 MHz . . .	-50 dB
UHF at 140 MHz . . .	-60 dB

IMPEDANCE:

50 ohms nominal all ports

POWER HANDLING:

The AD-2/70 will operate with a maximum of 200 watts composite signal.

CONNECTORS:

VHF	SO-239
UHF	SO-239
Duplexed	SO-239

SIZE (including connectors):

1.75" H x 2.63" W x 3" L

MODEL AD-2/70

DUAL BAND

ANTENNA COUPLER



Larsen Antennas
The Amateur's Professional™

The Larsen® No Nonsense Full Six Month

Warranty

Larsen Electronics, Inc. and Canadian Larsen Electronics, Ltd. warrant to every user of a Larsen Antenna that it will perform to its specified ratings (published specifications) and will be free from defects in materials and workmanship.

Larsen will repair or replace, without charge, any Larsen Antenna which fails within six months of the purchase date to meet this warranty. Excluded, of course, is failure due to misuse such as striking solid or foreign objects (trees, buildings, overhangs, doorways, etc.), improper installation and application of power in excess of specified ratings.

Larsen will not, however, be responsible for any incidental or consequential damages due to failure of a Larsen Antenna under this warranty or any implied warranty.

In the United States some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

INTRODUCTION

The Larsen AD-2/70 Dual Band Coupler is a dual frequency duplexer that permits simultaneous operation in both VHF and UHF bands. While primarily designed for operation in Amateur 2 Meter and Amateur 70 Centimeter bands, it is also suitable for operation in commercial VHF and UHF bands.

When using the AD-2/70 with a common dual band antenna such as the Larsen 2/70 series, a VHF and UHF radio may be operated simultaneously. (See Fig A)

The AD-2/70 can be used to connect a dual band radio that has separate VHF and UHF ports to a dual band antenna such as Larsen 2/70 series. (See Fig B)

The AD-2/70 may be used to connect a dual band transceiver with common VHF/UHF port to separate VHF and UHF antennas. (See Fig C)

Cross Band Isolation is greatly suppressed in the order of -50 dB or more. This permits interference free transmission or reception to take place simultaneously.

INSTALLATION

The AD-2/70 is supplied with a patch of dual sided adhesive. This adhesive patch can be used to adhere the AD-2/70 to any convenient flat surface. This adhesive is very aggressive and cannot be easily moved once attached. For maximum adhesion, be sure to clean both surfaces.

The AD-2/70 is designed to be operated with all ports terminated with radios or antennas. It should not be operated with any port unterminated.

Ports are marked VHF, UHF and DUPLEXED. The DUPLEXED port has a composite of all frequencies; the VHF port only VHF frequencies; and the UHF port only UHF frequencies.

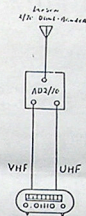


Figure B

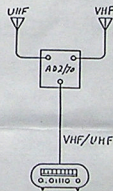


Figure C

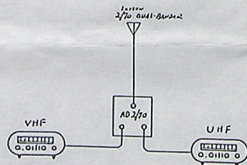


Figure A