



MMDS CHANNEL COMBINERS

LSI-700 AND LSI-800 SDF SERIES



LSI-700 SDF Series
(for non-adjacent channels)

THE LSI-700 SDF (NON-ADJACENT) SERIES AND THE LSI-800 SDF (ADJACENT) SERIES OF WAVEGUIDE DIRECTIONAL FILTERS REPRESENT A MAJOR BREAKTHROUGH IN LOW LOSS CHANNEL COMBINING FOR MULTICHANNEL TRANSMISSION SYSTEMS. BASED UPON THE CLASSICAL DESIGN OF THE 1950'S THESE FILTERS INCORPORATE FABRICATION TECHNIQUES THAT ARE VERY PREDICTABLE AND REPEATABLE. GUESSWORK FOLLOWED BY INTENSIVE TUNING PROCEDURES THAT CAN COMPROMISE PERFORMANCE IS ELIMINATED. SPECIFICATIONS ARE ASSURED INITIALLY, OVER TIME AND OVER TEMPERATURE. BOTH SERIES ARE ALSO AVAILABLE WITH A MANUAL SHUTTER SWITCH TO DISCONNECT A FAILED UNIT WHILE OPERATING AN AGILE TRANSMITTER INTO THE WIDEBAND INPUT.



LSI-800 SDF Series
(for adjacent channels)

WITH LOMA SCIENTIFIC'S **CONTINUING COMMITMENT TO QUALITY**, THESE TWO SERIES MAINTAIN PREMIUM CHANNEL COMBINING PERFORMANCE, ALL INSIDE A COST EFFECTIVE PACKAGE. CONTACT YOUR LOMA SCIENTIFIC INTERNATIONAL SALES REPRESENTATIVE FOR MORE INFORMATION ON OUR COMPLETE LINE OF BROADCAST TRANSMITTERS, SYSTEM ACCESSORIES AND CUSTOM RF PRODUCTS.

RF Performance

LSI-700 SDF

LSI-800 SDF

Frequency Response

Channel Input

NTSC: ITFS, OFS, MMDS; channels A1 to H3.
PAL, SECAM available upon request

Wideband Input

2100 to 3300 MHz

Insertion Loss

Channel Input to Output

0.6dB Typ., 0.8dB Max.

1.5dB Max., Visual Carrier
2.0dB Max., Aural Carrier

Wideband Input

0.1dB Max.

Isolation

Channel to Channel

30dB Min., 35dB Typ.

VSWR

Channel Input

1.25:1 Max.

Wideband Input

1.10:1 Max.

General

Connectors

Channel Input

N jack, 50 Ohms

Wideband Input and Output

CPR 340 Flange

Power Rating

Channel Input

100 Watts Max.

Mechanical

Temperature Range

0 to 55 Degrees C

Mounting

May configure up to 16
non-adjacent channel
filters to fit location
requirements

May configure up to 31
adjacent channel filters
to fit location requirements

Weight

5.0 lbs.

8.5 lbs.

Dimensions

12.5" x 8.5" x 8.5"

28" x 8.5" x 8.5"

Specifications are subject to change without notice

TYPICAL 31 ADJACENT CHANNEL COMBINING DIRECTIONAL FILTER SYSTEM

