

SignalOn® Series

L-Band Signal Management



5RU Chassis
(front view)

Passive Products

L-Band Satellite Splitter Modules (950 MHz to 2.15 GHz):

The L-Band series satellite splitter modules are engineered for high performance in the 950 MHz to 2.15 GHz frequency range. These plain splitter/combiner modules feature dual-port **power passing** capability for powering LNB's. All L-Band modules are available with precision F or BNC connectors, and are NEBS Level 3 compliant.

L-Band Module Specifications

L-BAND MODULE SPECIFICATIONS*	
PHYSICAL	
DIMENSIONS	8.5"H x 0.8"W x 3.8"D (21.6H x 2.0W x 9.7D cm)
WEIGHT	1.4 lbs (0.6 kg)
ENVIRONMENTAL	
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)
STORAGE TEMPERATURE	-40°C to +70°C (-40°F to +158°F)
STORAGE HUMIDITY	20-90% Non-condensing
ELECTRICAL	
DC POWER (Pass Through)	24 VDC at 1 Amp Max.
IMPEDANCE	75 Ω
FREQUENCY RANGE OF OPERATION	950-2150 MHz
EMI (Near Field)	-100 dB Min.
EMI - RADIATED & CONDUCTED EMISSIONS CISPR22	Class A
NOTE: * Unless otherwise stated by module specific table.	

L-Band Satellite Splitter Specifications

SPECIFICATIONS		N-MLF18 / N-MLB18	N-MLF14 / N-MLB14	N-MLF12 / N-MLB12
MEASUREMENT	FREQUENCY	8-WAY (dB)	4-WAY (dB)	2-WAY (dB)
INSERTION LOSS	950-1450 MHz	10.3 ± 0.5	6.8 ± 0.5	3.7 ± 0.5
	1450-1750 MHz	10.6 ± 0.5	6.8 ± 0.5	3.7 ± 0.5
	1750-2150 MHz	11 ± 0.5	7.1 ± 0.5	3.9 ± 0.5
RETURN LOSS (Min)	950-1450 MHz	18	18	18
	1450-1750 MHz	16	18	18
	1750-2150 MHz	16	16	16
RETURN LOSS (Min) COMMON PORT	950-1450 MHz	17	17	17
	1450-1750 MHz	17	17	17
	1750-2150 MHz	16	16	16
ISOLATION (Min) ADJACENT PORTS	950-1450 MHz	20	20	20
	1450-1750 MHz	20	20	20
	1750-2150 MHz	20	20	20



L-Band Satellite Splitter (front view)

L-Band Satellite Splitter (rear view)

L-Band Satellite Splitter Modules (950 MHz to 2.15 GHz):

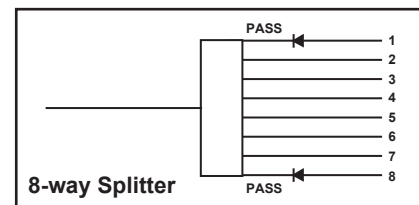
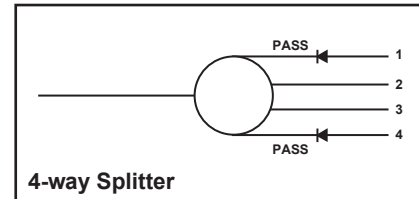
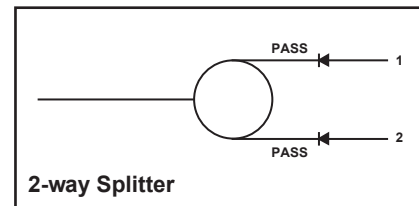
L-Band Satellite Circuit Splitter Specifications

SPECIFICATIONS		N-MLF24 / N-MLB24	N-MLF32 / N-MLB32
MEASUREMENT	FREQUENCY	4-WAY (dB)	2-WAY (dB)
INSERTION LOSS PORTS 1-8 to C-PORT	950-1450 MHz	-6.8 ± 0.5	-3.7 ± 0.5
	1450-1750 MHz	-6.8 ± 0.5	-3.7 ± 0.5
	1750-2150 MHz	-7.1 ± 0.5	-3.9 ± 0.5
RETURN LOSS (Min) PORTS 1-8	950-1450 MHz	-18	-18
	1450-1750 MHz	-18	-16
	1750-2150 MHz	-16	-16
RETURN LOSS (Min) COMMON PORT	950-1450 MHz	-17	-17
	1450-1750 MHz	-17	-17
	1750-2150 MHz	-16	-16
ISOLATION (Min) ADJACENT PORTS	950-1450 MHz	-20	-20
	1450-1750 MHz	-20	-20
	1750-2150 MHz	-20	-20
ISOLATION (Min) ADJACENT CIRCUITS	950-1450 MHz	-70	-70
	1450-1750 MHz	-70	-70
	1750-2150 MHz	-70	-70

Ordering Information

Example Part Number: N-MLB $\frac{12}{1 \ 2}$	
1: Connector Type:	F = F B = BNC
2: Configuration:	12 = 2:1 14 = 4:1 18 = 8:1 24 = 2x4:1* 32 = 3x2:1*
Part Number	Description
L-Band Satellite Splitter Modules	
N-MLB12	BNC Connector, 2:1 Splitter
N-MLB14	BNC Connector, 4:1 Splitter
N-MLB18	BNC Connector, 8:1 Splitter
N-MLB24	BNC Connector, 2x4:1 Splitter
N-MLB32	BNC Connector, 3x2:1 Splitter
N-MLF12	F Connector, 2:1 Splitter
N-MLF14	F Connector, 4:1 Splitter
N-MLF18	F Connector, 8:1 Splitter
N-MLF24	F Connector, 2x4:1 Splitter
N-MLF32	F Connector, 3x2:1 Splitter
NOTES:	
*Housed in a single module.	
All L-Band modules feature dual port power passing capability.	

Functional Schematics



SignalOn® Series is a registered trademark of ATX in the United States and/or other countries. Products or features contained herein may be covered by one or more U.S. or foreign patents. Other non-ATX product and company names mentioned in this data sheet are the property of their respective companies.

See web site for specifications & ordering information - www.atxnetworks.com

