

LS 2150 Active & Passive Series

Active (Amplified - Zero Loss) & Passive L-band Splitters



General Description:

The LS 2150A series of active (unity gain or zero loss) L-band (950-2150 MHz) splitters permit simple splitting of either the vertical or horizontal signals into multiple branches.

Features & Benefits

Convenient, centralized rack mount designs improve cable management
Microstrip design provides better performance and reliability
Larger configurations eliminate cascaded combiners for better performance
Active (zero loss) splitters allow for ease in RF budget design
Custom configurations for optimization of rack space and increased flexibility
Greatly improves cable management and aesthetics by allowing for easy access to cable routing and easing identification of cabling
Reduces cable connector failures by eliminating the need for frequent manual connects/disconnects

LS 2150 Active

MODEL	LS04 2150A	LS08 2150A	LS12 2150A	LS16 2150A	LS24 2150A	LS32 2150A	LS48 2150A	LS64 2150A
Configuration	1x4	1x8	1x12	1x16	1x24	1x32	1x48	1x64
Frequency	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz
Impedance	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω
P1dB	+3dBm	-10 dBm	-5 dBm	0 dBm	-10 dBm	-10 dBm	-10 dBm	-10 dBm
Insertion Loss	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB	0 ± 2 dB
Frequency Response	± 1 dB	± 2 dB	± 2 dB	± 2 dB	± 2 dB	± 2 dB	± 2 dB	± 2 dB
Isolation	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB
Input Return Loss	14 dB	13 dB	13dB	14 dB	12 dB	12 dB	12 dB	12 dB
Output Return Loss	15 dB	16dB	12 dB	12 dB	12 dB	12 dB	12 dB	12 dB
RF Connectors	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω
Power Requirements	18-24 VDC via 2-pin quick connect	18-24 VDC via 2-pin quick connect	18-24 VDC via 2-pin quick connect	18-24 VDC via 2-pin quick connect	18-24 VDC via 2-pin quick connect	18-24 VDC via 2-pin quick connect	18-24 VDC via 2-pin quick connect	18-24 VDC via 2-pin quick connect
LNB Power	18 VDC	18 VDC	18 VDC	18 VDC	18 VDC	18 VDC	18 VDC	18 VDC
Power Consumption	6 W	6 W	9 W	6 W	13 W	12 W	13 W	18 W
Mechanical	1 RU (1.75"H x 19"W x 6.5"D)	1 RU (1.75"H x 19"W x 6.5"D)	1 RU (1.75"H x 19"W x 6.5"D)	1 RU (1.75"H x 19"W x 6.5"D)	2 RU (3.5"H x 19"W x 14"D)	2 RU (3.5"H x 19"W x 14"D)	3 RU (5.25"H x 19"W x 20"D)	3 RU (5.25"H x 19"W x 20"D)
Options	Multiple units in a common chassis (dual, quad, etc.)							

LS 2150 Passive

MODEL	LS02 2150P	LS04 2150P	LS08 2150P	LS12 2150P	LS16 2150P	LS24 2150P	LS32 2150P
Frequency:	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz
Impedance:	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω
Insertion Loss:	4 dB ± 0.5 dB	8 ± 1 dB	11 ± 1.5 dB	17 ± 2 dB	17 dB ± 2 dB	21 ± 2 dB	22 ± 2 dB
Frequency Response:	± 0.5 dB	± 1 dB	± 1 dB	± 2 dB	± 2 dB	± 2 dB	± 2 dB
Isolation:	18 dB	18 dB	18 dB	20 dB	18 dB	20 dB	20 dB
Input Return Loss:	11 dB	13 dB	12 dB	14 dB	14 dB	10 dB	10 dB
Output Return Loss:	15 dB	14 dB	14 dB	14 dB	14 dB	13 dB	13 dB
RF Connectors:	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω	Type "F", 75 Ω
Mechanical:	1 RU (1.75"H x 19"W x 6.5"D)	1 RU (1.75"H x 19"W x 6.5"D)	1 RU (1.75"H x 19"W x 6.5"D)	1 RU (1.75"H x 19"W x 6.5"D)	1 RU (1.75"H x 19"W x 6.5"D)	2 RU (3.5"H x 19"W x 14"D)	2 RU (3.5"H x 19"W x 14"D)

*Specifications may vary with connector type. See data sheet for specific performance data.