

LINDSAY LINE PASSIVES

Extreme Bandwidth Series

1.2 GHz Directional Coupler, Splitters, Power Inserters

PRODUCT OVERVIEW

Lindsay Broadband extreme bandwidth line passives deliver reliable DOCSIS® 3.1 supported frequencies to 1.218GHz. MSOs benefit from low insertion losses and superior electrical and mechanical performances increasing network reliability and service quality to their demanding customers.

The LBEx series line passives are available in configurations including directional couplers, balanced and unbalanced splitters and power inserters. These two-way AC power-passing outdoor hardened devices are 6 kV surge protected, 15PSI pressure tested enclosed in polyurethane coated 360 aluminum alloy housing complete with stainless steel hardware. Line passives with a swivel center conductor seizure mechanism equipped for pedestal and strand mounting allows for flexible installations. Standards compliant line passives with high current power coils and shorting bars for power grid configurations to block or pass power.



PART NUMBER DESCRIPTION

LBEx-2 two way splitter
LBEx-3 unbalanced three way splitter
LBEx-3B balanced three way splitter
LBEx-8 directional coupler 8dB
LBEx-12 directional coupler 12dB
LBEx-16 Directional coupler 16dB
LBEx-PI power inserter

FEATURES

- Support DOCSIS®3.1 bandwidth 5 to 1218MHz
- 15A current capacity, 20A on power inserter
- 6kV surge protection
- Low insertion loss
- 15PSI pressure withstand
- Polyurethane coated 380 aluminum alloy housing
- Separate gaskets for weatherproofing and RFI integrity
- Shorting bars to disable power
- Swivel center conductor seizure mechanism
- Strand and pedestal mounting
- SCTE standards compliant

PASSIVE 1.2GHZ SPECIFICATIONS

ITEM	Type								
		DC 8	DC 12	DC 16	S2	S3	S3U		PI
							low	high	
Insertion Loss (In-Out) (-dB) Max	Frequency								
	5	1.9	1.1	1.1	4.4	6.1	7.5	3.9	0.9
	10	1.8	1.1	1.0	4.2	5.8	7.4	3.8	0.6
	50	1.7	1.1	1.0	4.0	5.6	7.2	3.8	0.7
	300	1.8	1.1	1.0	4.2	5.9	7.7	4.0	0.7
	450	1.9	1.2	1.1	4.2	6.1	7.8	4.1	0.7
	550	2.0	1.3	1.2	4.3	6.2	7.9	4.2	0.7
	750	2.2	1.5	1.4	4.5	6.5	8	4.6	0.8
	870	2.4	1.7	1.5	4.7	6.6	8.1	4.7	0.9
	1000	2.5	1.9	1.6	4.9	6.9	8.3	4.9	1.0
	1218	2.8	2.3	1.9	5.2	7.3	8.7	5.2	1.2
Tap Loss (+/-1 dB)	5	8.5	12.3	16	-	-	-	-	-
	10	8.5	12.3	16	-	-	-	-	-
	50	8.5	12.3	16	-	-	-	-	-
	300	8.5	12.3	16	-	-	-	-	-
	450	8.5	12.3	16	-	-	-	-	-
	550	8.5	12.3	16	-	-	-	-	-
	750	8.5	12.3	16	-	-	-	-	-
	870	8.5	12.3	16	-	-	-	-	-
	1000	8.5	12.3	16	-	-	-	-	-
	1218	8.5	12.3	16	-	-	-	-	-

FOR MORE INFORMATION ON OUR WIRELESS, OPTICAL AND RF PRODUCTS
 CALL 1-800-465-7046 OR
 U.S. Sales Toll free: 877-672-4340
www.lindsaybroadbandinc.com

PASSIVE 1.2 GHZ SPECIFICATIONS

ITEM	Type							
		DC 8	DC 12	DC 16	S2	S3	S3U	PI
	Frequency							
Isolation (-dB) Min	5-40	16	20	20	20	18	19	56
	41-400	20	23	24	23	23	23	58
	401-750	20	23	24	23	23	23	58
	751-870	20	20	22	23	20	20	53
	870-1000	18	20	22	20	20	20	53
	1001-1218	18	18	22	20	20	20	53
Return Loss (-dB)	5-40	15	15	15	15	15	15	15
	41-400	17	17	17	17	17	17	17
	401-750	17	17	17	17	17	17	17
	751-870	17	17	17	17	17	17	17
	871-1000	17	17	17	17	17	17	17
	1001-1218	16	16	16	16	16	16	16
Hum modulation @ 15 Amps	5-10	60	60	60	60	60	60	60
	11-749	60	60	60	60	60	60	60
	750-1000	60	60	60	60	60	60	60
	1001-1218	55	55	55	55	55	55	55
Hum modulation @ 20A in AC port	5-10	-	-	-	-	-	-	55
	11-749	-	-	-	-	-	-	55
	750-1000	-	-	-	-	-	-	55
	1001-1218	-	-	-	-	-	-	50

GENERAL SPECIFICATIONS

Dimensions	(H x W x D) 4.5 x 5.5 x 3 in; 114.3 x 139.7 x 76.2 mm
Weight	1.43 lbs. 0.65 kg
Center Conductor Seizure	15 to 20 in-lb (1.7 to 3.2Nm)
Housing Closure Screws	50 to 60 in-lb (5.6 to 6.8NM)
Operating Temperature	-40 to 140 degrees F (-40 to 60 degree C)
RFI	100 dB minimum

No variation greater than ± 0.2 dB over any 6 MHz bandwidth for Insertion Loss and Tap Loss

Note: Specifications subject to change without notice

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