

LINDSAY LINE PASSIVES LHR ROTATABLE COUPLER SERIES PRODUCT OVERVIEW

Lindsay Broadband LHR Series line passives deliver reliable DOCSIS® 3.1 supported frequencies to 1.22GHz. MSO's benefit from low insertion losses and superior electrical and mechanical performances increasing network reliability and service quality to their demanding customers.

The LHR Series line passives are available in configurations including directional couplers, and 2 way splitters. 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 hinged lid for non-disruptive service and design configuration. Standards compliant line passives with high current power coils and shorting bars for power grid configurations to block or pass power.

FEATURES

- Support DOCSIS®3.1 bandwidth 5 to 1220MHz
- 20A current capacity
- 6kV surge protection
- Low insertion loss
- 15PSI pressure withstand
- Polyurethane coated 360 aluminum alloy housing
- Separate gaskets for weatherproofing and RFI integrity
- Shorting bars to disable power
- Non-destructive connector pin mechanism
- Strand and pedestal mounting
- SCTE standards compliant
- Configurable Porting

1.22 GHz DIRECTIONAL COUPLER



ASSEMBLED

- LHR104 LHR platform with RC4 installed
- LHR108 LHR platform with RC8 installed
- LHR112 LHR platform with RC12 installed
- LHR116 LHR platform with RC16 installed

SEPARATELY

- LHR Platform LHR Housing with Platform PCB Assemble
- RC4 4dB coupler (splitter)
- RC8 8dB coupler
- RC12 12dB coupler
- RC16 16dB coupler

SPECIFICATIONS

Performance Specifications													5 to 1220 MHz		15 Ampere Rating	
Frequency Response																
Model		5	10	30-50	100	300	450	550	750	860	1000	1220				
LHR100	Tap	0.20	0.25	0.25	0.30	0.45	0.55	0.60	0.70	0.70	0.90	1.70	AVE			
		0.50	0.50	0.55	0.60	0.70	0.80	0.80	0.85	0.90	1.10	1.90	MAX			
	ISO	28	32	40	48	40	36	34	32	32	32	32	MIN			
LHR104	Thru	3.25	3.50	3.45	3.45	3.65	3.80	3.85	4.00	4.25	4.50	5.30	AVE			
		3.50	3.50	3.50	3.50	3.70	3.80	4.00	4.15	4.60	4.80	5.80	MAX			
	Tap	3.25	3.50	3.45	3.45	3.65	3.80	3.85	4.00	4.25	4.50	5.30	AVE			
		3.50	3.50	3.50	3.50	3.70	3.80	4.00	4.15	4.60	4.80	5.80	MAX			
	ISO	22	28	27	26	23	22	21	20	20	20	20	MIN			
LHR108	Thru	1.50	1.50	1.50	1.60	1.80	1.90	2.00	2.20	2.30	2.70	3.90	AVE			
		1.80	1.90	1.80	1.80	2.10	2.30	2.40	2.60	2.80	3.10	4.30	MAX			
	Tap	8.50	8.45	8.35	8.35	8.25	8.20	8.20	8.35	8.40	8.50	9.40	AVE			
		8.90	8.80	8.70	8.70	8.70	8.70	8.70	8.70	8.80	9.00	10.00	MAX			
	ISO	15	20	23	22	19	17	16	15	15	15	15	MIN			
LHR112	Thru	0.70	0.75	0.80	0.90	1.10	1.25	1.35	1.55	1.70	2.00	3.00	AVE			
		1.10	1.10	1.15	1.20	1.40	1.50	1.60	1.80	2.00	2.20	3.40	MAX			
	Tap	13.4	12.8	12.5	12.5	12.2	11.9	11.9	11.9	12.0	12.1	13.2	AVE			
		13.2	13.1	13.0	13.0	12.8	12.7	12.7	12.7	12.7	12.8	13.7	MAX			
	ISO	22	33	31	29	24	22	21	19	18	17	16	MIN			
LHR116	Thru	0.80	0.85	0.90	0.95	1.10	1.20	1.30	1.35	1.45	1.70	2.75	AVE			
		1.20	1.30	1.30	1.30	1.35	1.40	1.50	1.65	1.75	2.00	3.00	MAX			
	Tap	17.3	16.5	16.2	16.2	15.9	15.5	15.5	15.6	15.6	15.6	16.0	AVE			
		17.6	16.8	16.7	16.7	16.7	16.6	16.5	16.5	16.5	16.6	16.8	MAX			
	ISO	24	36	36	34	30	26	25	23	22	21	18	MIN			
RETURN LOSS		16	16	16	16	16	16	16	16	16	16	16	Typ			
HUM MOD		Ave of 5, 10 and 50 MHz					Average of 300, 450, 550, 750 and 1000 MHz					MIN				
@ 10 Amperes		-75					-80					MIN				
@ 12 Amperes		-70					-75					MIN				
@ 15 Amperes		-65					-70					MIN				
TEMP RANGE		-40 to +60°C														

GENERAL SPECIFICATIONS

Dimensions	(H x W x D) 5.5 x 6.2 x 2.7 in; 139.7 x 165.1 68.8 mm
Weight	1.55 lbs / 0.70 kg
House Closure Screws	50 to 100 in lb (5.6 to 11.3 Nm)
Operating Temperature	-40 to 140° F (-40 to 60° C)
RFI	100 dB minimum

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

Note: Specifications subject to change without notice

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