

1.2 GHz Extreme Bandwidth Indoor Digital Subscriber Multitaps

LBIDT SERIES

LINDSAY
BROADBAND

Lindsay's extreme bandwidth indoor multitaps deliver highly reliable, superior performance for tomorrow's advanced 1.2 GHz cable TV networks.

The LBIDT series of digital subscriber multitaps are specifically designed for use in all transmission applications for RF, digital telephony, QPSK and QAM data. Lindsay-engineered low intermodulation ferrite material and blocking capacitors prevent high level ingress in the reverse path from affecting forward signals; essential when providing high-speed cable modem service. Increased reliability, performance and quality are achieved through the use of premium PCB materials, Hi-Q Surface Mount Technology (SMT) components, improved ferrite core and winding technology, and a through board multiple grounding system.

FEATURES

- 5 MHz to 1.2 GHz bandwidth
- DOCSIS® 3.1 compatible
- Minimum 110 dB RFI shielding
- Low intermod distortions < 100 dB
- 75 ohm impedence
- 6 kV Ring Wave surge protection
- Integral ground block
- Tongue & groove, nickel-plated, zinc alloy housing
- 15 PSI waterproof
- 200 G center conductor retention
- Machined F connectors on 1" spacing
- Blocking capacitor on all ports



LBIDT 2-Port
(front angled view)



LBIDT 4-Port
(front angled view)



LBIDT 8-Port
(front angled view)

ORDERING INFORMATION

	# of Ports	Value of Tap*
LBIDT-12	x	yyy
	2	04T
	4	008/08T
	8	011/11T
		014
		017
		020
		023
		026
		029
		032

NOTE:

(*) T suffix on tap value means terminated, with no output port



2-PORT SPECIFICATIONS

Parameter	Specification									
	4T	8	11	14	17	20	23	26	29	32
Insertion Loss (dB)										
5-85 MHz	-	3.5	2.2	1.7	1.0	1.0	1.0	1.0	0.8	1.0
85-300 MHz	-	3.7	2.5	1.7	1.2	1.0	1.0	1.0	0.8	1.0
300-750 MHz	-	4.0	3.0	1.9	1.4	1.2	1.2	1.2	1.2	1.2
750-1002 MHz	-	4.0	3.0	1.9	1.4	1.2	1.2	1.2	1.2	1.2
1002-1218 MHz	-	4.2	3.4	3.0	1.6	1.5	1.5	1.5	1.5	1.5
Loss (dB) Input, Output, Tap										
5-85 MHz	18	18	18	18	18	18	18	18	18	18
85-300 MHz	18	18	18	18	18	18	18	18	18	18
300-750 MHz	18	18	18	18	18	18	18	18	18	18
750-1002 MHz	18	18	18	18	18	18	18	18	18	18
1002-1218 MHz	18	18	18	18	18	18	18	18	18	18
Tap Value (dB) Maximum										
5-85 MHz	4±1.0	8±1.0	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
85-300 MHz	4±1.0	8±1.0	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
300-750 MHz	4±1.0	8±1.0	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
750-1002 MHz	4±1.0	8±1.2	11±1.2	14±1.2	17±1.2	20±1.2	23±1.2	26±1.2	29±1.2	32±1.2
1002-1218 MHz	4±1.0	8±1.5	11±1.5	14±1.5	17±1.5	20±1.5	23±1.5	26±1.5	29±1.5	32±1.5
Isolation (dB) (Tap-Tap)										
5-10 MHz	36.0	33.0	28.0	30.0	28.0	33.0	35.0	35.0	35.0	35.0
10-85 MHz	36.0	33.0	30.0	30.0	30.0	33.0	35.0	35.0	35.0	35.0
85-300 MHz	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
300-750 MHz	28.0	27.0	27.0	27.0	30.0	30.0	27.0	27.0	28.0	30.0
750-1002 MHz	28.0	27.0	27.0	27.0	30.0	30.0	27.0	27.0	28.0	30.0
1002-1218 MHz	26.0	27.0	26.0	26.0	27.0	27.0	27.0	27.0	27.0	27.0
Isolation (dB) (Output-Tap)										
5-10 MHz	-	38.0	30.0	35.0	35.0	38.0	38.0	40.0	40.0	40.0
10-85 MHz	-	35.0	33.0	35.0	35.0	40.0	40.0	40.0	40.0	40.0
85-300 MHz	-	35.0	33.0	30.0	30.0	35.0	40.0	40.0	40.0	40.0
300-750 MHz	-	28.0	28.0	27.0	30.0	32.0	33.0	35.0	35.0	35.0
750-1002 MHz	-	28.0	28.0	27.0	30.0	32.0	33.0	35.0	35.0	35.0
1002-1218 MHz	-	26.0	28.0	26.0	27.0	27.0	30.0	30.0	30.0	30.0
Environmental & Physical										
Operating Temperature	-40°C to +60°C (-40°F to +140°F)									
Dimensions (H x W x D)	2.5"H x 2.0"W x 1.4"D (6.3H x 5.1W x 3.5D cm)									
Weight	3.2 oz (90.0 g)									



4-PORT SPECIFICATIONS

Parameter	Specification								
	8T	11	14	17	20	23	26	29	32
Insertion Loss (dB)									
5-85 MHz	-	3.5	2.6	1.5	1.0	1.0	1.0	1.0	1.0
85-300 MHz	-	3.5	2.6	1.5	1.0	1.0	1.0	1.0	1.0
300-750 MHz	-	4.0	3.2	2.0	1.5	1.2	1.2	1.2	1.2
750-1002 MHz	-	4.0	3.4	2.0	1.5	1.2	1.2	1.2	1.2
1002-1218 MHz	-	4.3	3.5	2.5	1.7	1.6	1.4	1.4	1.4
Return Loss (dB) Input, Output, Tap									
5-85 MHz	18	18	18	18	18	18	18	18	18
85-300 MHz	18	18	18	18	18	18	18	18	18
300-750 MHz	18	18	18	18	18	18	18	18	18
750-1002 MHz	18	18	18	18	18	18	18	18	18
1002-1218 MHz	18	18	18	18	18	18	18	18	18
Tap Value (dB) Maximum									
5-85 MHz	8±1.5	11±1.5	14±1.2	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
85-300 MHz	8±1.2	11±1.5	14±1.2	17±1.0	20±1.0	23±1.0	26±1.0	29±1.0	32±1.0
300-750 MHz	8±1.0	11±1.2	14±1.2	17±1.0	20±1.2	23±1.0	26±1.0	29±1.2	32±1.2
750-1002 MHz	8±1.0	11±1.2	14±1.2	17±1.2	20±1.3	23±1.2	26±1.2	29±1.5	32±1.5
1002-1218 MHz	8±1.0	11±1.5	14±1.0	17±1.5	20±1.6	23±1.5	26±1.2	29±1.2	32±1.7
Isolation (dB) (Tap-Tap)									
5-10 MHz	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
10-85 MHz	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
85-300 MHz	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
300-750 MHz	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
750-1002 MHz	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
1002-1218 MHz	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Isolation (dB) (Output-Tap)									
5-10 MHz	-	35.0	35.0	35.0	35.0	38.0	38.0	38.0	38.0
10-85 MHz	-	35.0	35.0	35.0	35.0	40.0	40.0	40.0	40.0
85-300 MHz	-	30.0	30.0	30.0	30.0	33.0	35.0	35.0	35.0
300-750 MHz	-	26.0	26.0	26.0	30.0	29.0	30.0	30.0	30.0
750-1002 MHz	-	26.0	26.0	26.0	28.0	29.0	30.0	30.0	30.0
1002-1218 MHz	-	26.0	25.0	25.0	27.0	27.0	28.0	28.0	28.0
Environmental & Physical									
Operating Temperature	-40°C to +60°C (-40°F to +140°F)								
Dimensions (H x W x D)	2.5"H x 2.0"W x 1.4"D (6.3H x 5.1W x 3.5D cm)								
Weight	4.8 oz (110.0 g)								



8-PORT SPECIFICATIONS

Parameter	Specification							
	11T	14	17	20	23	26	29	32
Insertion Loss (dB)								
5-85 MHz	-	3.5	2.3	1.5	1.0	0.8	0.8	0.7
85-300 MHz	-	3.7	2.5	1.6	1.2	0.8	0.8	0.8
300-750 MHz	-	4.0	2.7	2.2	1.3	1.0	1.0	1.0
750-1002 MHz	-	4.3	3.0	2.5	1.5	1.2	1.0	1.0
1002-1218 MHz	-	5.0	3.5	3.0	2.0	1.5	1.2	1.2
Return Loss (dB) Input, Output, Tap								
5-85 MHz	18	18	18	18	18	18	18	18
85-300 MHz	18	18	18	18	18	18	18	18
300-750 MHz	18	18	18	18	18	18	18	18
750-1002 MHz	18	18	18	18	18	18	18	18
1002-1218 MHz	18	18	16	18	18	18	18	18
Tap Value (dB) Maximum								
5-85 MHz	11±1.5	14±1.5	17±1.0	20±1.0	23±1.2	26±1.0	29±1.0	32±1.0
85-300 MHz	11±1.2	14±1.2	17±1.0	20±1.0	23±1.2	26±1.0	29±1.0	32±1.0
300-750 MHz	11±1.0	14±1.0	17±1.0	20±1.0	23±1.0	26±1.2	29±1.2	32±1.0
750-1002 MHz	11±1.0	14±1.5	17±1.5	20±1.0	23±1.5	26±1.2	29±1.5	32±1.5
1002-1218 MHz	11±2.0	14±2.0	17±2.0	20±1.2	23±2.0	26±1.5	29±2.0	32±2.0
Isolation (dB) (Tap-Tap)								
5-10 MHz	35.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
10-85 MHz	35.0	30.0	35.0	35.0	35.0	35.0	35.0	35.0
85-300 MHz	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
300-750 MHz	28.0	28.0	28.0	27.0	28.0	29.0	30.0	30.0
750-1002 MHz	27.0	27.0	27.0	26.0	26.0	29.0	28.0	28.0
1002-1218 MHz	26.0	27.0	27.0	25.0	25.0	27.0	27.0	27.0
Isolation (dB) (Output-Tap)								
5-10 MHz	-	30.0	38.0	40.0	40.0	40.0	40.0	40.0
10-85 MHz	-	35.0	40.0	40.0	40.0	40.0	40.0	40.0
85-300 MHz	-	30.0	35.0	35.0	35.0	35.0	35.0	35.0
300-750 MHz	-	27.0	30.0	30.0	30.0	30.0	30.0	30.0
750-1002 MHz	-	27.0	30.0	30.0	30.0	30.0	30.0	30.0
1002-1218 MHz	-	27.0	27.0	30.0	27.0	28.0	30.0	30.0
Environmental & Physical								
Operating Temperature	-40°C to +60°C (-40°F to +140°F)							
Dimensions (H x W x D)	2.6"H x 4.5"W x 1.4"D (6.7H x 11.4W x 3.5D cm)							
Weight	6.4 oz (180.0 g)							