Features and Benefits

1.2 GHz Drop Directional Taps
CMCDT4000H

The Antronix drop directional taps are available with 2, 4, or 8 outputs with various drop tap values. These taps provide proper signal distribution to multi-dwelling units or homes.

The environmentally hardened housing provides reliable signal distribution for both indoors and outdoors.

- **6 kV Ring Wave Surge Withstand**
  All ports can withstand multiple 6 kV ring wave surges per IEEE specification C62/41 Category A3.
- **Excellent Linearity**
  Proprietary ferrite blend inhibits re-magnetization of the core due to voltage spikes from impulse noise or lightning. The ferrite remains ultra-linear to prevent intermodulation distortion where high levels return carriers can affect forward path signals.
- **Multiple Outputs Directional Taps**
  Save installation time with 2, 4 or 8 port drops for designs to support various home densities.
- **Capacitively Coupled F-ports**
  Additional protection against ferrite core re-magnetization and saturation.
- **100% Soldered Back**
  Ensures reliable and repeatable 120 dB shielding effectiveness.
- **Zinc Alloy Diecast Housing with Proprietary Nickel Alloy Plating**
  Superior corrosion resistant plating combined with a diecast backplate protects the back of the housing where corrosion is more prominent.

2 Port Tap Electrical Specifications
CMCDT4200H

Model Tap Value	CMCDT	4204 4	4208 8	4211 11	4214 14	4217 17	4220 20	4223 23	4226 26
Specification	**Freq (MHz)**	**Max**	**Max**	**Max**	**Max**	**Max**	**Max**	**Max**	**Max**
Tap Loss Tolerance (±dB)	5-15	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	15-85	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	85-200	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	200-550	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	550-750	0.8	1.2	1.2	1.2	1.2	1.3	1.4	1.4
	750-1002	1.2	1.5	1.5	1.5	1.5	1.6	1.6	1.6
	1002-1218	1.5	1.8	2.0	2.0	2.0	2.0	2.0	2.0
Insertion Loss Max/Avg (dB)	5-15	-	3.8	2.6	1.2	1.2	1.0	1.0	1.0
	15-85	-	3.6	2.3	1.0	1.0	0.8	0.8	0.8
	85-200	-	3.6	2.3	1.3	1.2	0.8	0.8	0.8
	200-550	-	3.8	2.8	1.3	1.3	1.0	1.0	0.8
	550-750	-	4.0	3.2	1.8	1.8	1.3	1.2	1.1
	750-1002	-	4.5	3.6	2.4	2.3	1.5	1.4	1.4
	1002-1218	-	5.2	4.3	3.0	2.9	2.2	2.0	1.9
Specification	**Freq (MHz)**	**Min**	**Min**	**Min**	**Min**	**Min**	**Min**	**Min**	**Min**
Output to Tap Isolation Min (dB)	5-15	-	28	28	30	32	32	34	35
	15-85	-	35	32	35	35	35	35	38
	85-200	-	32	30	32	32	32	32	35
	200-550	-	25	25	26	28	28	28	30
	550-750	-	22	22	23	25	25	26	28
	750-1002	-	22	22	22	23	23	24	25
	1002-1218	-	22	22	22	22	22	22	22
Tap to Tap Isolation Min (dB)	5-15	22	22	22	22	22	22	22	22
	15-85	32	32	32	32	32	32	32	32
	85-200	30	30	30	30	30	30	30	30
	200-550	25	25	25	25	25	25	25	25
	550-750	25	25	25	25	25	25	25	25
	750-1002	22	22	22	22	22	23	23	23
	1002-1218	22	22	22	22	22	22	22	22

2 Port Tap Electrical Specifications
CMCDT4200H

Model Tap Value	CMCDT	4204 4	4208 8	4211 11	4214 14	4217 17	4220 20	4223 23	4226 26	4229 29
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min	Min
Input/Output Return Loss Min (dB)	5-15	20	20	18	20	20	20	20	20	20
	15-85	28	22	18	20	20	20	20	20	20
	85-200	20	20	18	20	20	20	20	20	20
	200-550	18	18	18	18	18	18	18	18	18
	550-750	18	18	18	18	18	18	18	18	18
	750-1002	18	18	18	18	18	18	18	18	18
	1002-1218	18	18	18	18	18	18	18	18	18
Tap Port Return Loss Min (dB)	5-15	20	20	20	20	20	20	20	20	20
	15-85	20	25	25	28	28	28	28	28	28
	85-200	20	20	20	20	20	20	20	20	20
	200-550	18	18	18	18	18	18	18	18	18
	550-750	18	18	18	18	18	18	18	18	18
	750-1002	18	18	18	18	18	18	18	18	18
	1002-1218	18	18	18	18	18	18	18	18	18

4 Port Tap Electrical Specifications
CMCDT4400H

Model Tap Value	CMCDT	4408 8	4411 11	4414 14	4417 17	4420 20	4423 23	4426 26	4429 29
Specification	Freq (MHz)	Max	Max	Max	Max	Max	Max	Max	Max
Tap Loss Tolerance (±dB)	5-15	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	15-85	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	85-200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	200-550	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2
	550-750	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	750-1002	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	1002-1218	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Insertion Loss Max/Avg (dB)	5-15	-	3.8	2.6	1.4	1.0	1.0	1.0	1.0
	15-85	-	3.6	2.6	1.2	0.8	0.8	0.8	0.8
	85-200	-	3.6	2.6	1.2	0.8	0.8	0.8	0.8
	200-550	-	3.6	2.6	1.4	1.0	1.0	1.0	0.8
	550-750	-	3.8	3.0	1.6	1.2	1.3	1.2	1.1
	750-1002	-	4.1	3.2	2.0	1.4	1.5	1.4	1.4
	1002-1218	-	4.3	3.4	2.2	1.6	2.2	2.0	1.9
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min
Output to Tap Isolation Min (dB)	5-15	-	25	25	28	28	32	35	35
	15-85	-	32	32	35	35	35	40	40
	85-200	-	28	28	32	32	32	35	35
	200-550	-	25	25	28	28	28	30	30
	550-750	-	22	22	22	25	25	25	25
	750-1002	-	22	22	22	25	25	25	25
	1002-1218	-	22	22	22	22	22	22	22
Tap to Tap Isolation Min (dB)	5-15	24	24	24	24	24	24	24	24
	15-85	30	30	30	30	30	30	30	30
	85-200	25	25	25	25	25	25	25	25
	200-550	25	25	25	25	25	25	25	25
	550-750	22	22	22	22	22	22	22	22
	750-1002	22	22	22	22	22	22	22	22
	1002-1218	22	22	22	22	22	22	22	22

4 Port Tap Electrical Specifications
CMCDT4400H

Model Tap Value	CMCDT	4408 8	4411 11	4414 14	4417 17	4420 20	4423 23	4426 26	4429 29
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min
Input/Output Return Loss Min (dB)	5-15	18	18	18	18	18	18	18	18
	15-85	20	20	20	20	20	20	20	20
	85-200	20	20	20	20	20	20	20	20
	200-550	20	20	20	20	20	20	20	20
	550-750	20	20	20	20	20	20	20	20
	750-1002	18	18	18	18	18	18	18	18
	1002-1218	18	18	18	18	18	18	18	18
Tap Port Return Loss Min (dB)	5-15	18	18	18	18	18	18	18	18
	15-85	20	20	20	20	20	20	20	20
	85-200	20	20	20	20	20	20	20	20
	200-550	20	20	20	20	20	20	20	20
	550-750	20	20	20	20	20	20	20	20
	750-1002	18	18	18	18	18	18	18	18
	1002-1218	18	18	18	18	18	18	18	18

8 Port Tap Electrical Specifications
CMCDT4800H

Model Tap Value	CMCDT	4812 12	4815 15	4818 18	4821 21	4824 24	4827 27	4830 30	4833 33
Specification	Freq (MHz)	Max	Max	Max	Max	Max	Max	Max	Max
Tap Loss Tolerance (±dB)	5-15	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	15-85	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	85-200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	200-550	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	550-750	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	750-1002	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	1002-1218	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Insertion Loss Max/Avg (dB)	5-15	-	3.8	2.6	1.4	1.2	1.0	1.0	1.0
	15-85	-	3.6	2.4	1.2	1.0	0.8	0.8	0.8
	85-200	-	3.6	2.4	1.2	1.0	0.8	0.8	0.8
	200-550	-	3.6	2.4	1.2	1.0	0.8	0.8	0.8
	550-750	-	3.8	2.8	1.5	1.2	1.2	1.2	1.2
	750-1002	-	4.1	3.0	2.0	1.4	1.4	1.4	1.4
	1002-1218	-	4.5	3.4	2.4	1.8	1.8	1.8	1.8
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min
Output to Tap Isolation Min (dB)	5-15	-	28	28	30	32	35	35	38
	15-85	-	30	30	32	35	38	38	40
	85-200	-	28	28	30	32	35	35	38
	200-550	-	28	28	25	30	30	30	32
	550-750	-	26	26	25	28	30	30	30
	750-1002	-	24	24	25	25	28	30	30
	1002-1218	-	22	22	22	25	25	25	25
Tap to Tap Isolation Min (dB)	5-15	24	24	24	24	24	24	24	24
	15-85	28	28	26	26	26	26	26	26
	85-200	28	28	26	26	26	26	26	26
	200-550	24	24	24	24	24	24	24	24
	550-750	22	22	22	22	22	22	22	22
	750-1002	22	22	22	22	22	22	22	22
	1002-1218	22	22	22	22	22	22	22	22

8 Port Tap Electrical Specifications
CMCDT4800H

Model Tap Value	CMCDT	4812 12	4815 15	4818 18	4821 21	4824 24	4827 27	4830 30	4833 33
Specification	Freq (MHz)	Min	Min	Min	Min	Min	Min	Min	Min
Input/Output Return Loss Min (dB)	5-15	18	18	18	18	18	18	18	18
	15-85	20	20	20	20	20	20	20	20
	85-200	20	20	20	20	20	20	20	20
	200-550	20	20	20	20	20	20	20	20
	550-750	20	20	20	20	20	20	20	20
	750-1002	18	18	18	18	18	18	18	18
	1002-1218	18	18	18	18	18	18	18	18
Tap Port Return Loss Min (dB)	5-15	18	18	18	18	18	18	18	18
	15-85	20	20	20	20	20	20	20	20
	85-200	20	20	20	20	20	20	20	20
	200-550	20	20	20	20	20	20	20	20
	550-750	20	20	20	20	20	20	20	20
	750-1002	18	18	18	18	18	18	18	18
	1002-1218	18	18	18	18	18	18	18	18

Specifications
CMCDT4000H

General	
Impedance	75Ω
F-connector Type	ANSI/SCTE-01 Compliant F-port
Second Harmonic	-45 dBmV after 6 kV Ring Wave Surge with a +55 dBmV Return Input Carrier
Environmental	
Operating Temperature	-40°C to +60°C
Pressure Seal (psi)	15 psi
Surge Withstand	6 kV Ring Wave Surge per IEEE C62.41 Category A3 on all ports
Corrosion Resistance	ANSI/SCTE-143 salt spray for 1000 hours
Screening Effectiveness	120 dB (min)

Ordering Information

CMCDT4 x yy H

- H – Horizontal port configuration
- Tap Value
- No. of Ports
  - 2 – 2 Port
  - 4 – 4 Port
  - 8 – 8 Port
- Drop directional tap, 1.2 GHz

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