

## OT-3800H

### Outdoor Half Power Pass Tap

#### Application

- ▶ HFC network



#### Features

- ▶ Used for field trunk of CATV, good waterproof design.
- ▶ 75Ω, 5/8"KS-F trans-connector available.
- ▶ Adapt to 5-1000MHZ.
- ▶ Metal isolation netting, prevention of RF interference, good shield function.
- ▶ Pass power: 10A AC/DC.



Datasheet

2-way Tap

Parameter	Frequency Range			Unit	Index								
	Normal				08	10	12	14	16	20	24	26	28
Tap Loss	Typical (Permissible Deviation)	5MHz	±1.0	dB	7.2	9.2	11.9	14.1	16.5	19.3	23.4	25.4	25.4
		50MHz	±1.0	dB	6.9	9.7	11.5	14.0	16.9	19.7	23.6	25.6	25.6
		550MHz	±1.0	dB	6.9	10.3	11.6	14.1	16.9	19.8	23.9	25.9	25.9
		750MHz	±1.0	dB	8.0	10.6	12.0	14.2	17.2	20.2	24.2	26.3	26.0
		1000MHz	±1.0	dB	8.6	11.2	12.3	14.1	17.2	20.6	24.6	26.6	26.8
Insertion Loss	5MHz			dB	≤2.9	≤2.9	≤2.6	≤2.2	≤1.7	≤1.5	≤1.2	≤1.1	≤1.0
	50MHz			dB	≤3.3	≤3.2	≤3.0	≤2.7	≤1.9	≤1.6	≤1.4	≤1.3	≤1.1
	550MHz			dB	≤3.6	≤3.5	≤3.3	≤3.0	≤2.4	≤1.8	≤1.5	≤1.4	≤1.3
	750MHz			dB	≤4.2	≤4.0	≤3.7	≤3.5	≤2.8	≤2.2	≤2.0	≤2.0	≤1.8
	1000MHz			dB	≤4.7	≤4.5	≤4.3	≤4.0	≤3.2	≤2.8	≤2.5	≤2.4	≤2.2
Reverse Isolation	5-50MHz			dB	≥28	≥28	≥28	≥28	≥28	≥30	≥32	≥34	≥36
	50-550MHz			dB	≥25	≥25	≥25	≥25	≥25	≥28	≥30	≥32	≥32
	550-750MHz			dB	≥23	≥23	≥23	≥24	≥24	≥26	≥28	≥28	≥28
	750-1000MHz			dB	≥22	≥22	≥22	≥22	≥22	≥24	≥26	≥26	≥27
Tap-Tap Isolation	5-50MHz			dB	≥27	≥27	≥28	≥28	≥28	≥30	≥32	≥34	≥36
	50-550MHz			dB	≥25	≥25	≥25	≥25	≥25	≥28	≥30	≥32	≥32
	550-750MHz			dB	≥23	≥23	≥23	≥24	≥24	≥26	≥28	≥28	≥28
	750-1000MHz			dB	≥22	≥22	≥22	≥23	≥22	≥25	≥26	≥26	≥27
Return Loss	5-50MHz			dB	≥18	≥20	≥20	≥20	≥22	≥22	≥22	≥22	≥22
	50-550MHz			dB	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20
	550-750MHz			dB	≥16	≥17	≥17	≥17	≥17	≥17	≥17	≥17	≥17
	750-1000MHz			dB	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14



4-way Tap

Parameter	Frequency Range			Unit	Index								
	Normal				8	10	11	14	17	20	23	26	29
Tap Loss	Typical (Permissible Deviation)	5MHz	±1.0	dB	7.2	9.5	11.9	14.1	16.5	19.3	22.5	25.4	28.4
		50MHz	±1.0	dB	6.9	9.8	11.5	14.0	16.9	19.7	22.8	25.6	28.6
		550MH	±1.0	dB	6.9	10.4	11.6	14.1	16.9	19.8	23.2	25.9	28.9
		750MH	±1.0	dB	8.0	10.9	12.0	14.2	17.2	20.2	23.5	26.3	29.0
		1000MH	±1.0	dB	8.6	11.4	12.3	14.1	17.5	20.6	23.7	26.6	29.8
Insertion Loss	5MHz			dB	/	≤3.5	≤2.9	≤2.2	≤1.7	≤1.5	≤1.2	≤1.1	≤1.0
	50MHz			dB	/	≤3.8	≤3.2	≤2.7	≤1.9	≤1.6	≤1.4	≤1.3	≤1.1
	550MHz			dB	/	≤4.0	≤3.5	≤3.0	≤2.4	≤1.8	≤1.5	≤1.4	≤1.3
	750MHz			dB	/	≤4.5	≤4.0	≤3.5	≤2.8	≤2.2	≤2.0	≤2.0	≤1.8
	1000MHz			dB	/	≤5.0	≤4.5	≤4.0	≤3.2	≤2.8	≤2.5	≤2.4	≤2.2
Reverse Isolation	5-50MHz			dB	/	≥27	≥28	≥28	≥28	≥30	≥32	≥34	≥36
	50-550MHz			dB	/	≥24	≥25	≥25	≥25	≥28	≥30	≥32	≥32
	550-750MHz			dB	/	≥22	≥23	≥24	≥24	≥26	≥28	≥28	≥28
	750-1000MHz			dB	/	≥22	≥22	≥22	≥22	≥24	≥26	≥26	≥27
Tap-Tap Isolation	5-50MHz			dB	≥27	≥27	≥28	≥28	≥28	≥30	≥32	≥34	≥36
	50-550MHz			dB	≥25	≥25	≥25	≥25	≥25	≥28	≥30	≥32	≥32
	550-750MHz			dB	≥23	≥23	≥23	≥24	≥24	≥26	≥28	≥28	≥28
	750-1000MHz			dB	≥22	≥22	≥22	≥23	≥22	≥25	≥26	≥26	≥27
Return Loss	5-50MHz			dB	≥18	≥18	≥20	≥20	≥22	≥22	≥22	≥22	≥22
	50-550MHz			dB	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20
	550-750MHz			dB	≥16	≥16	≥17	≥17	≥17	≥17	≥17	≥17	≥17
	750-1000MHz			dB	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14



8-way Tap

Parameter	Frequency Range		Unit	Index							
	Normal			811	814	817	820	823	826	829	
Tap Loss	Typical (Permissible Deviation)	5MHz	±1.0	dB	11.9	13.7	16.5	19.2	23.8	25.4	28.2
		50MHz	±1.0	dB	11.5	14.0	16.5	19.7	23.6	25.6	28.6
		550MHz	±1.0	dB	11.6	14.5	16.9	19.8	23.9	25.9	28.9
		750MHz	±1.0	dB	12.0	15.2	17.2	20.4	24.3	26.4	29.3
		1000MHz	±1.0	dB	12.3	16.1	17.8	21.3	24.9	27.0	30.7
Insertion Loss	5MHz		dB	/	≤3.5	≤2.2	≤1.7	≤1.7	≤1.1	≤1.0	
	50MHz		dB	/	≤3.8	≤2.7	≤1.9	≤1.9	≤1.3	≤1.1	
	550MHz		dB	/	≤4.0	≤3.0	≤2.4	≤2.4	≤1.4	≤1.3	
	750MHz		dB	/	≤4.5	≤3.5	≤2.8	≤2.8	≤2.0	≤1.8	
	1000MHz		dB	/	≤5.0	≤4.0	≤3.2	≤3.2	≤2.4	≤2.2	
Reverse Isolation	5-50MHz		dB	/	≥23	≥24	≥26	≥26	≥32	≥38	
	50-550MHz		dB	/	≥22	≥24	≥26	≥26	≥31	≥31	
	550-750MHz		dB	/	≥20	≥23	≥24	≥24	≥28	≥28	
	750-1000MHz		dB	/	≥18	≥22	≥23	≥23	≥26	≥27	
Tap-Tap Isolation	5-50MHz		dB	≥23	≥23	≥24	≥26	≥26	≥32	≥38	
	50-550MHz		dB	≥22	≥22	≥24	≥26	≥26	≥31	≥31	
	550-750MHz		dB	≥20	≥20	≥23	≥24	≥24	≥28	≥28	
	750-1000MHz		dB	≥20	≥20	≥22	≥23	≥23	≥26	≥27	
Return Loss	5-50MHz		dB	≥20	≥18	≥20	≥22	≥22	≥22	≥22	
	50-550MHz		dB	≥20	≥20	≥20	≥20	≥20	≥20	≥20	
	550-750MHz		dB	≥17	≥16	≥17	≥17	≥17	≥17	≥17	
	750-1000MHz		dB	≥14	≥14	≥14	≥14	≥14	≥14	≥14	