

OT-3800F

Outdoor Full 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.
- ▶ All ports adapt to pass power: 10A AC/DC.



Datasheet

1-way Tap

Parameter	Frequency Range			Unit	Index							
	Normal				06	08	10	12	14	16	18	20
Tap Loss	Typical (Permissible Deviation)	5MHz	±1.0	dB	5.6	7.2	9.2	11.3	13.8	15.4	17.4	19.4
		50MHz	±1.0	dB	5.7	7.3	9.6	11.9	14.0	15.6	17.6	19.6
		550MHz	±1.0	dB	5.9	7.6	9.6	12.1	14.0	16.0	18.0	19.0
		750MHz	±1.0	dB	6.2	7.8	9.8	12.0	14.2	16.1	18.2	20.1
		1000MHz	±1.0	dB	6.3	7.9	10.3	12.1	14.3	16.3	18.4	20.6
Insertion Loss	5MHz			dB	≤3.5	≤2.9	≤2.2	≤1.7	≤1.5	≤1.2	≤1.1	≤1.0
	50MHz			dB	≤3.8	≤3.3	≤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	≤4.3	≤3.7	≤2.8	≤2.2	≤2.0	≤2.0	≤1.8
	1000MHz			dB	≤5.0	≤4.7	≤4.5	≤4.0	≤3.0	≤2.5	≤2.4	≤2.2
Reverse Isolation	5-50MHz			dB	≥23	≥23	≥24	≥26	≥28	≥30	≥32	≥38
	50-550MHz			dB	≥22	≥20	≥24	≥26	≥26	≥28	≥31	≥31
	550-750MHz			dB	≥20	≥20	≥23	≥24	≥26	≥28	≥28	≥28
	750-1000MHz			dB	≥18	≥20	≥22	≥23	≥24	≥26	≥26	≥27
Return Loss	5-50MHz			dB	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14
	50-550MHz			dB	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16
	550-750MHz			dB	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16
	750-1000MHz			dB	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14



2-way Tap

Parameter	Frequency Range			Unit	Index							
	Normal				08	10	12	14	16	18	20	22
Tap Loss	Typical (Permissible Deviation)	5MHz	±1.0	dB	7.2	9.8	11.9	13.8	15.8	17.8	19.3	21.4
		50MHz	±1.0	dB	6.9	10.0	11.5	14.0	16.5	17.8	20.0	21.9
		550MHz	±1.0	dB	6.9	10.2	11.6	14.2	16.9	17.9	20.4	22.3
		750MHz	±1.0	dB	8.2	10.5	12.0	14.5	17.2	18.3	20.7	22.6
		1000MHz	±1.0	dB	8.6	10.7	12.3	14.6	17.4	18.7	21.0	22.8
Insertion Loss	5MHz			dB	≤3.5	≤3.0	≤2.9	≤2.2	≤1.7	≤1.5	≤1.2	≤1.1
	50MHz			dB	≤3.8	≤3.4	≤3.2	≤2.7	≤1.9	≤1.6	≤1.4	≤1.3
	550MHz			dB	≤4.0	≤3.7	≤3.5	≤3.0	≤2.4	≤1.8	≤1.5	≤1.4
	750MHz			dB	≤4.5	≤4.1	≤4.0	≤3.5	≤2.8	≤2.2	≤2.0	≤2.0
	1000MHz			dB	≤5.0	≤4.6	≤4.5	≤4.0	≤3.2	≤2.8	≤2.5	≤2.3
Reverse Isolation	5-50MHz			dB	≥23	≥23	≥23	≥26	≥26	≥30	≥32	≥34
	50-550MHz			dB	≥22	≥22	≥22	≥26	≥26	≥28	≥30	≥32
	550-750MHz			dB	≥20	≥20	≥20	≥24	≥24	≥28	≥28	≥30
	750-1000MHz			dB	≥18	≥20	≥20	≥23	≥24	≥26	≥26	≥27
Tap-Tap Isolation	5-50MHz			dB	≥23	≥23	≥23	≥26	≥28	≥30	≥34	≥36
	50-550MHz			dB	≥22	≥22	≥22	≥24	≥26	≥28	≥32	≥32
	550-750MHz			dB	≥20	≥20	≥20	≥23	≥26	≥28	≥28	≥28
	750-1000MHz			dB	≥18	≥20	≥20	≥22	≥24	≥26	≥26	≥27
Return Loss	5-50MHz			dB	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14
	50-550MHz			dB	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16
	550-750MHz			dB	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16
	750-1000MHz			dB	≥14	≥14	≥14	≥14	≥14	≥14	≥14	≥14