

33 SERIES 1.8 GHz OUTDOOR TAPS

[DT33W-SR-CB-SCA-x] Cable Products, Mainline Passives

Description

Taikan's 33 series 1.8 GHz taps have been designed with the future of the CATV industry in mind. All units come complete with a factory installed power passing bar for uninterrupted service when the faceplate is removed. Interchangeable faceplates allow for future network growth while minimizing costly equipment upgrades for cable providers. All taps are backed by Taikan's one year limited warranty. *

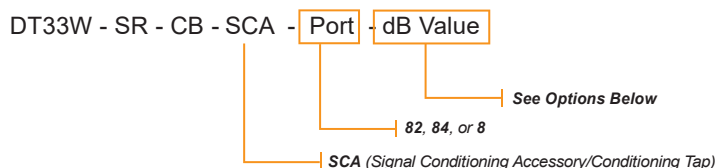


Features

- Supports Standard Spectrum DOCSIS (FDD) and Full Duplex DOCSIS (FDX) Compliant Systems
- 5-1800 MHz Bandwidth
- 15 A Current Capacity
- Aluminum Alloy Housing used for Corrosion Resistance
- Rubber Gasket and RFI Shielding at 120 dB
- Blocking Capacitors on the "F" ports for Extended Surge Resistance
- ANSI/SCTE 01-2015 Fully Compliant F-Connectors
- Heat Resistant Silicone Sealed and Nickel Plated Brass "F" Ports
- Double Polyurethane Coating or Powder Coating for Greater Weather Protection
- Power Passing Option: CB: Continuous Through Signal without Faceplate
- Easily Interchangeable Port Faceplates
- Aerial or Pedestal Installation for Outdoor Use
- Compliant with SCTE Guidelines
- Printed Circuit Boards
- Flatness In/Out: ± 0.5 , Flatness In/Tap: ± 0.5
- Connector: 5/8" -24 NEF Female for In/Out
- Surge Withstand: SR: IEEE C62.41-1991 Category B3/6kV Combination Wave, 3000 A



Ordering Information



Model Number	Inner Box	Standard Carton	Carton Weight	dB Values Available
DT33W-SR-CB-SCA-82xx	10 pcs	40 pcs	23 kg / 51 lbs	-04T, -08, -11, -14, -17, -20, -23, -26, -29
DT33W-SR-CB-SCA-84xx	10 pcs	40 pcs	23 kg / 51 lbs	-08T, -11, -14, -17, -20, -23, -26, -29
DT33W-SR-CB-SCA-8xx	10 pcs	40 pcs	23 kg / 51 lbs	-11T, -14, -17, -20, -23, -26, -29

* Please refer to <http://www.taikan.com/Downloads/warranty.pdf> for our warranty service agreement



2 Port Wide Body Specifications

Customization available upon request

Insertion Loss (dB)

Frequency		4T	8		11		14		17		20		23		26		29	
			Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
			5-10 MHz	T	3.5	3.0	3.1	2.6	2.3	1.8	2.4	1.9	2.1	1.6	1.8	1.3	1.9	1.4
10-65 MHz	T	2.7	2.5	1.8	1.6	1.1	0.9	1.1	0.8	0.9	0.7	0.9	0.7	0.9	0.7	0.9	0.7	
65-300 MHz	T	3.0	2.8	1.9	1.7	1.2	1.0	1.2	1.0	1.1	0.9	0.9	0.7	0.9	0.7	0.9	0.7	
300-550 MHz	T	3.5	3.3	2.3	2.1	1.7	1.5	1.6	1.4	1.6	1.3	1.4	1.2	1.4	1.2	1.3	1.1	
550-750 MHz	T	3.5	3.3	2.5	2.2	1.7	1.5	1.6	1.4	1.6	1.3	1.4	1.2	1.4	1.2	1.3	1.1	
750-862 MHz	T	3.7	3.5	2.7	2.4	1.8	1.6	1.8	1.5	1.6	1.3	1.6	1.3	1.6	1.3	1.5	1.2	
862-1000 MHz	T	4.0	3.7	3.2	2.8	2.1	1.8	2.0	1.7	1.6	1.3	1.8	1.5	1.6	1.3	1.7	1.4	
1000-1218 MHz	T	4.3	4.0	3.4	3.0	2.3	2.0	2.1	1.8	1.7	1.4	1.8	1.5	1.7	1.4	1.7	1.4	
1218-1500 MHz	T	4.9	4.6	3.6	3.0	2.3	2.0	2.1	1.8	1.7	1.4	1.8	1.5	1.7	1.4	1.7	1.4	
1500-1700 MHz	T	5.5	5.1	3.9	3.5	2.9	2.5	2.6	2.2	2.2	1.8	2.1	1.7	2.1	1.7	2.0	1.6	
1700-1800 MHz	T	5.8	5.4	4.3	3.8	3.2	2.8	2.8	2.4	2.4	2.0	2.3	1.8	2.3	1.8	2.3	1.8	

Tap Value (dB) (± 3.0 dB 5-10 MHz) (± 2.0 dB 10-15 MHz) (± 1.5 dB 15-860 MHz) (± 2.0 dB 860-1600 MHz) (± 2.5 dB 1600-1800 MHz)

Frequency		4T	8	11	14	17	20	23	26	29
		5-10 MHz	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0
10-65 MHz	4.0	8.5	11.5	14.0	17.0	20.0	23.0	26.0	29.0	
65-860 MHz	4.0	8.5	11.5	14.5	17.0	20.0	23.0	26.0	29.0	
860-1218 MHz	4.0	9.0	12.0	14.5	17.0	20.0	23.0	26.0	29.0	
1218-1500 MHz	4.5	10.0	12.5	14.5	17.0	20.0	23.0	26.0	29.0	
1500-1700 MHz	5.0	10.5	13.0	15.0	18.0	21.0	24.0	27.0	30.0	
1700-1800 MHz	6.0	11.0	13.0	15.0	18.0	21.0	24.0	27.0	30.0	

Tap to Tap Isolation (dB)

Frequency	(Max)	4T	8	11	14	17	20	23	26	29
		5-10 MHz	12	12	12	12	12	12	12	12
10-65 MHz	18	18	18	18	18	18	18	18	18	
65-860 MHz	20	20	20	20	20	20	20	20	20	
860-1218 MHz	20	20	20	20	20	20	20	20	20	
1218-1500 MHz	16	16	16	16	16	16	16	16	16	
1500-1700 MHz	16	16	16	16	16	16	16	16	16	
1700-1800 MHz	16	16	16	16	16	16	16	16	16	

Customization available upon request

Output to Tap Isolation (dB)

(Max)		4T	8	11	14	17	20	23	26	29
Frequency	5-10 MHz	T	14	14	14	14	14	16	18	18
	10-65 MHz	T	27	29	30	31	33	35	36	38
	65-860 MHz	T	25	27	28	30	31	33	34	36
	860-1218 MHz	T	21	23	24	26	27	29	30	32
	1218-1500 MHz	T	21	20	23	25	25	25	25	25
	1500-1700 MHz	T	21	20	23	25	25	25	25	25
	1700-1800 MHz	T	21	20	23	25	25	25	25	25

Return Loss (dB)

(Min)		4T	8	11	14	17	20	23	26	29
Frequency	5-10 MHz	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10
	10-47 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	47-950 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
	950-1218 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
	1218-1500 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1500-1700 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1700-1800 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14

Hum Modulation (dB) @ 15 A

(Min)		4T	8	11	14	17	20	23	26	29
Frequency	5-10 MHz	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 52
	10-1600 MHz	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
	1600-1800 MHz	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52

General Specifications: Power Passing 15 A, 60/90 VAC



Customization available upon request

Insertion Loss (dB)

Frequency	8T	11		14		17		20		23		26		29	
		Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
5-10 MHz	T	3.1	2.6	2.7	2.2	2.1	1.6	2.6	2.1	2.1	1.6	1.9	1.4	1.9	1.4
10-65 MHz	T	2.7	2.5	2.0	1.6	1.1	0.9	1.1	0.9	1.1	0.8	0.9	0.6	0.8	0.5
65-300 MHz	T	2.9	2.7	2.0	1.7	1.2	1.0	1.2	1.0	1.1	0.8	0.9	0.7	0.8	0.6
300-550 MHz	T	3.4	3.2	2.4	2.1	1.7	1.5	1.7	1.4	1.3	1.1	1.3	1.1	1.2	1.0
550-750 MHz	T	3.9	3.6	2.7	2.3	1.7	1.5	1.7	1.4	1.3	1.1	1.3	1.1	1.2	1.0
750-862 MHz	T	4.0	3.7	2.8	2.5	1.7	1.5	1.7	1.4	1.5	1.2	1.4	1.2	1.2	1.0
862-1000 MHz	T	4.1	3.8	3.3	3.0	2.0	1.7	1.8	1.5	1.6	1.4	1.5	1.3	1.5	1.3
1000-1218 MHz	T	4.3	4.0	3.4	3.0	2.1	1.7	1.8	1.5	1.7	1.4	1.6	1.3	1.7	1.5
1218-1500 MHz	T	4.5	4.2	3.5	3.2	2.5	2.1	2.5	1.8	1.9	1.5	1.7	1.3	1.7	1.5
1500-1700 MHz	T	5.2	4.6	4.0	3.6	3.0	2.6	2.6	2.2	2.4	2.0	2.0	1.7	2.0	1.6
1700-1800 MHz	T	5.6	4.8	4.3	3.8	3.2	2.8	3.0	2.4	2.5	2.1	2.3	1.8	2.3	1.8

Tap Value (dB) (± 3.0 dB 5-10 MHz) (± 2.0 dB 10-15 MHz) (± 1.5 dB 15-860 MHz) (± 2.0 dB 860-1600 MHz) (± 2.5 dB 1600-1800 MHz)

Frequency	8T	11	14	17	20	23	26	29
5-10 MHz	8.0	11.0	15.0	17.0	20.0	23.0	26.0	29.0
10-65 MHz	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0
65-860 MHz	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0
860-1218 MHz	8.0	12.0	14.5	17.0	20.0	23.0	26.0	29.0
1218-1500 MHz	8.5	12.5	15.0	17.0	20.0	23.0	26.0	29.0
1500-1700 MHz	9.0	13.0	15.5	18.0	21.0	24.0	27.0	30.0
1700-1800 MHz	10.0	13.5	15.5	18.0	21.0	24.0	27.0	30.0

Tap to Tap Isolation (dB)

(Max)

Frequency	8T	11	14	17	20	23	26	29
5-10 MHz	14	14	14	14	14	14	14	14
10-65 MHz	18	18	18	18	18	18	18	18
65-860 MHz	20	20	20	20	20	20	20	20
860-1218 MHz	20	20	20	20	20	20	20	20
1218-1500 MHz	20	20	20	20	20	20	20	20
1500-1700 MHz	16	16	16	16	16	16	16	16
1700-1800 MHz	16	16	16	16	16	16	16	16

4 Port Wide Body Specifications Cont'd

Customization available upon request

Output to Tap Isolation (dB)

(Max)	8T	11	14	17	20	23	26	29
5-10 MHz	T	18	18	18	16	18	18	18
10-65 MHz	T	22	22	26	29	32	36	38
65-860 MHz	T	27	28	29	31	32	34	36
860-1218 MHz	T	23	24	26	27	29	30	32
1218-1500 MHz	T	23	23	23	25	25	25	25
1500-1700 MHz	T	23	23	23	25	25	25	25
1700-1800 MHz	T	23	23	23	25	25	25	25

Return Loss (dB)

(Min)	8T	11	14	17	20	23	26	29
5-10 MHz	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10
10-47 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
47-950 MHz	≥ 15	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16
950-1218 MHz	≥ 15	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16
1218-1500 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
1500-1700 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
1700-1800 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14

Hum Modulation (dB) @ 15 A

(Min)	8T	11	14	17	20	23	26	29
5-10 MHz	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55
10-1600 MHz	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
1600-1800 MHz	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52

General Specifications: Power Passing 15 A, 60/90 VAC



8 Port Specifications

Customization available upon request

Insertion Loss (dB)

Frequency		11T	14		17		20		23		26		29	
			Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
5-10 MHz	T		3.0	2.5	2.2	1.7	2.2	1.7	2.8	2.3	1.9	1.4	1.9	1.4
10-65 MHz	T		2.7	2.5	2.1	1.6	1.1	0.9	1.1	0.9	1.0	0.8	1.0	0.8
65-300 MHz	T		2.9	2.7	2.1	1.7	1.2	1.0	1.2	1.0	1.1	0.9	1.1	0.9
300-550 MHz	T		3.4	3.2	2.5	2.1	1.7	1.5	1.7	1.4	1.4	1.2	1.4	1.2
550-750 MHz	T		3.9	3.6	2.5	2.1	1.7	1.5	1.7	1.4	1.4	1.2	1.4	1.2
750-862 MHz	T		4.0	3.7	2.6	2.2	1.7	1.5	1.8	1.5	1.6	1.3	1.6	1.3
862-1000 MHz	T		4.2	4.0	2.7	2.3	2.1	1.8	1.9	1.6	1.6	1.4	1.6	1.4
1000-1218 MHz	T		4.3	4.0	2.9	2.5	2.4	1.8	1.9	1.6	1.7	1.4	1.7	1.4
1218-1500 MHz	T		4.5	4.2	3.8	3.0	2.5	2.1	2.3	1.9	1.9	1.5	1.9	1.5
1500-1700 MHz	T		5.2	4.8	4.1	3.6	3.0	2.6	2.6	2.2	2.4	2.0	2.2	1.8
1700-1800 MHz	T		5.8	5.0	4.8	3.8	3.5	2.8	3.2	2.4	2.5	2.1	2.3	1.8

Tap Value (dB) (± 3.0 dB 5-10 MHz) (± 2.0 dB 10-15 MHz) (± 1.5 dB 15-860 MHz) (± 2.0 dB 860-1600 MHz) (± 2.5 dB 1600-1800 MHz)

Frequency		11T	14	17	20	23	26	29
		5-10 MHz		11.0	16.0	19.0	20.0	23.0
10-65 MHz		11.5	14.5	18.0	21.0	24.0	27.0	29.5
65-860 MHz		11.5	14.5	18.0	21.0	24.0	27.0	29.5
860-1218 MHz		11.5	15.0	18.0	21.0	24.0	27.0	29.5
1218-1500 MHz		12.0	15.0	18.0	21.0	24.0	27.0	29.5
1500-1700 MHz		12.5	16.0	19.0	21.5	24.5	27.5	30.0
1700-1800 MHz		13.5	17.0	19.5	22.0	25.0	28.0	30.0

Tap to Tap Isolation (dB)

Frequency	(Max)	11T	14	17	20	23	26	29
		5-10 MHz		16	16	16	16	16
10-65 MHz		18	18	18	18	18	18	18
65-860 MHz		20	20	20	20	20	20	20
860-1218 MHz		20	20	20	20	20	20	20
1218-1500 MHz		20	20	20	20	20	20	20
1500-1700 MHz		16	16	16	16	16	16	16
1700-1800 MHz		16	16	16	16	16	16	16

8 Port Specifications Cont'd

Customization available upon request

Output to Tap Isolation (dB)

(Max)	11T	14	17	20	23	26	29
5-10 MHz	T	20	20	20	20	20	20
10-65 MHz	T	22	22	26	30	33	36
65-860 MHz	T	28	28	31	33	34	36
860-1218 MHz	T	24	26	27	29	30	32
1218-1500 MHz	T	23	23	25	25	25	25
1500-1700 MHz	T	23	23	25	25	25	25
1700-1800 MHz	T	23	23	25	25	25	25

Return Loss (dB)

(Min)	11T	14	17	20	23	26	29
5-10 MHz	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10
10-47 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
47-950 MHz	≥ 15	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16
950-1218 MHz	≥ 15	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16
1218-1500 MHz	≥ 15	≥ 16	≥ 16	≥ 16	≥ 14	≥ 14	≥ 14
1500-1700 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
1700-1800 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14

Hum Modulation (dB) @ 15 A

(Min)	11T	14	17	20	23	26	29
5-10 MHz	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55
10-1600 MHz	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
1600-1800 MHz	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52	≥ 52

General Specifications: Power Passing 15 A, 60/90 VAC

