

# 88 SERIES 1.0 GHz OUTDOOR TAPS [DT88G-SR-CB-x-x-x]

Cable Products

## Description

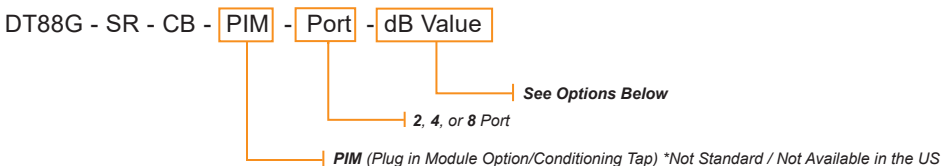
Taikan's 88 series taps have been designed with the future of the CATV industry in mind. All units come complete with a factory installed power passing bar for uninterrupted service when the faceplate is removed. Interchangeable faceplates allow for future network growth while minimizing costly equipment upgrades for cable providers. All taps are backed by Taikan's one year limited warranty. \*

## Features

- 5-1002 MHz Bandwidth (1.2 GHz option also available)
- 12 A Current Capacity
- Aluminum Alloy Housing used for Corrosion Resistance
- Neoprene Weather Gasket and RFI Shielding at 120 dB
- Blocking Capacitors on the "F" Ports for Extended Surge Resistance
- Epoxy Sealed and Nickel Plated Brass "F" Ports
- Operational Temperature Range -40°C to +60°C (-40°F to +140°F)
- Printed Circuit Board
- Power Passing Option: CB: Continuous Through Signal w/o Faceplate
- Easily Interchangeable 2/4/8 Port Faceplates
- Double Polyurethane Coating for Greater Weather Protection
- Compliant with SCTE Guidelines
- Standard jumper installed
- Aerial or Pedestal Installation
- PIM Equalizable Tap Options Available
- Options: PIM-EQ-xx, PIM-CS-xx, PIM-RPA-xx, PIM-FPA-xx, PIM-HPF-54
- Surge Withstand: IEEE C62.41-1991 Category B3/6kV Combination Wave, 3000 A



## Ordering Information



Model Number	Inner Box	Standard Carton	Carton Weight	dB Values Available
DT88G-SR-CB-x-2xx	10 pcs	40 pcs	17 kg / 37 lbs	-04T, -08, -11, -14, -17, -20, -23, -26, -29, -32, -35
DT88G-SR-CB-x-4xx	10 pcs	40 pcs	18 kg / 40 lbs	-08T, -11, -14, -17, -20, -23, -26, -29, -32, -35
DT88G-SR-CB-x-8xx	10 pcs	40 pcs	21 kg / 45 lbs	-11T, -14, -17, -20, -23, -26, -29, -32, -35

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



## 2 Port Specifications - 1.0 GHz

Customization available upon request

### Insertion Loss (dB)

Frequency	4T	8		11		14		17		20		23		26		29		32	
		Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
5-42 MHz	T	3.4	3.1	1.8	1.2	1.0	0.8	0.9	0.7	0.8	0.5	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4
42-400 MHz	T	3.6	3.5	2.0	1.8	1.3	1.2	1.0	0.9	1.0	0.9	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8
400-750 MHz	T	4.5	4.2	2.4	2.2	1.5	1.5	1.4	1.1	1.2	1.0	1.2	1.0	1.2	1.0	1.2	1.0	1.2	1.0
750-1002 MHz	T	4.8	4.5	3.3	3.0	2.6	1.7	2.0	1.5	2.0	1.4	1.8	1.3	1.8	1.3	1.8	1.3	1.8	1.3

### Tap Value (dB) Tolerance: ± 1.0

Frequency	4T	8	11	14	17	20	23	26	29	32
5-600 MHz	4	8	11	14	17	20	23	26	29	32
600-800 MHz	4	8	11	14	17	20	23	26	29	32
800-1002 MHz	4	8	11	14	17	20	23	26	29	32

### Tap to Tap Isolation (dB)

Frequency	4T	8	11	14	17	20	23	26	29	32
5-15 MHz	22	22	22	22	22	22	22	22	22	22
15-42 MHz	25	25	25	25	25	25	25	25	25	25
42-600 MHz	25	25	25	25	25	25	25	25	25	25
600-1002 MHz	22	22	22	22	22	22	22	22	22	22

### Output to Tap Isolation (dB)

Frequency	4T	8	11	14	17	20	23	26	29	32
5-15 MHz	T	22	22	24	27	30	35	38	40	44
15-400 MHz	T	23	26	30	30	34	36	38	42	45
400-750 MHz	T	22	22	22	28	30	32	32	32	32
750-1002 MHz	T	22	22	22	28	30	32	32	32	32

### Input / Output / Tap Return Loss (dB)

Frequency	4T	8	11	14	17	20	23	26	29	32
5-15 MHz	16	16	16	16	16	16	16	16	16	16
15-42 MHz	18	18	18	18	18	18	18	18	18	18
42-400 MHz	18	18	18	18	18	18	18	18	18	18
400-1002 MHz	16	16	16	16	16	16	16	16	16	16

### Hum Modulation @ 10 A (dB)

5-1002 MHz	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60
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General Specifications: Power Passing 12 A, 60/90 VAC

## 4 Port Specifications - 1.0 GHz

Customization available upon request

### Insertion Loss (dB)

Frequency	8T	11		14		17		20		23		26		29		32		35	
		Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
5-42 MHz	T	3.2	3.2	1.8	1.6	1.0	0.9	1.0	0.7	1.0	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4
42-400 MHz	T	3.5	3.4	2.0	1.8	1.3	1.2	1.0	0.9	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8
400-750 MHz	T	4.5	4.2	2.4	2.2	1.5	1.3	1.4	1.2	1.2	1.0	1.2	1.0	1.2	1.0	1.2	1.0	1.2	1.0
750-1002 MHz	T	4.8	4.5	3.5	3.0	2.6	1.7	2.0	1.6	1.8	1.4	1.8	1.3	1.8	1.3	1.8	1.3	1.8	1.3

### Tap Value (dB) Tolerance: ± 1.0

Frequency	8T	11	14	17	20	23	26	29	32	35
5-600 MHz	8	11	14	17	20	23	26	29	32	35
600-800 MHz	8	11	14	17	20	23	26	29	32	35
800-1002 MHz	8	11	14	17	20	23	26	29	32	35

### Tap to Tap Isolation (dB)

Frequency	8T	11	14	17	20	23	26	29	32	35
5-15 MHz	22	22	22	22	22	22	22	22	22	22
15-42 MHz	25	25	25	25	25	25	25	25	25	25
42-600 MHz	25	25	25	25	25	25	25	25	25	25
600-1002 MHz	22	22	22	22	22	22	22	22	22	22

### Output to Tap Isolation (dB)

Frequency	8T	11	14	17	20	23	26	29	32	35
5-15 MHz	T	22	22	22	27	35	38	40	42	44
15-400 MHz	T	25	27	30	33	33	34	42	44	45
400-750 MHz	T	24	25	28	30	30	30	39	41	43
750-1002 MHz	T	22	23	24	25	24	25	27	31	32

### Input / Output / Tap Return Loss (dB)

Frequency	8T	11	14	17	20	23	26	29	32	35
5-15 MHz	16	16	16	16	16	16	16	16	16	16
15-42 MHz	18	18	18	18	18	18	18	18	18	18
42-400 MHz	18	18	18	18	18	18	18	18	18	18
400-1002 MHz	16	16	16	16	16	16	16	16	16	16

### Hum Modulation @ 10 A (dB)

5-1002 MHz	-60	-60	-60	-60	-60	-60	-60	-60	-60	-60
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General Specifications: Power Passing 12 A, 60/90 VAC

## 8 Port Specifications - 1.0 GHz

Customization available upon request

### Insertion Loss (dB)

Frequency	11T	14		17		20		23		26		29		32		35	
		Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
5-42 MHz	T	3.2	3.2	1.8	1.6	1.1	0.9	1.0	0.9	1.0	0.4	0.8	0.4	0.8	0.4	0.8	0.4
42-400 MHz	T	3.5	3.4	2.0	1.8	1.3	1.2	1.3	0.9	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8
400-750 MHz	T	4.5	4.2	2.4	2.2	1.5	1.3	1.5	1.1	1.2	1.0	1.2	1.0	1.2	1.0	1.2	1.0
750-1002 MHz	T	4.8	4.5	3.5	3.0	2.2	2.0	2.2	1.6	1.8	1.4	1.8	1.3	1.8	1.3	1.8	1.3

### Tap Value (dB) Tolerance: ± 1.0

Frequency	11T	14	17	20	23	26	29	32	35
5-600 MHz	11	14	17	20	23	26	29	32	35
600-800 MHz	11	14	17	20	23	26	29	32	35
800-1002 MHz	11	14	17	20	23	26	29	32	35

### Tap to Tap Isolation (dB)

Frequency	11T	14	17	20	23	26	29	32	35
5-15 MHz	22	22	22	22	22	22	22	22	22
15-42 MHz	25	25	25	25	25	25	25	25	25
42-600 MHz	25	25	25	25	25	25	25	25	25
600-1002 MHz	22	22	22	22	22	22	22	22	22

### Output to Tap Isolation (dB)

Frequency	11T	14	17	20	23	26	29	32	35
5-15 MHz	T	22	22	26	31	35	38	40	42
15-400 MHz	T	28	28	30	33	34	35	42	44
400-750 MHz	T	25	25	25	28	28	30	32	32
750-1002 MHz	T	23	23	25	28	28	28	31	32

### Input / Output / Tap Return Loss (dB)

Frequency	11T	14	17	20	23	26	29	32	35
5-15 MHz	16	16	16	16	16	16	16	16	16
15-42 MHz	18	18	18	18	18	18	18	18	18
42-400 MHz	18	18	18	18	18	18	18	18	18
400-1002 MHz	16	16	16	16	16	16	16	16	16

### Hum Modulation @ 10 Amp (dB)

5-1002 MHz	-60	-60	-60	-60	-60	-60	-60	-60	-60
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General Specifications: Power Passing 12 A, 60/90 VAC

# 88 SERIES 1.2 GHz OUTDOOR TAPS [DT88V-SR-CB-x-x-x]

## Cable Products

### Description

Taikan's 88 series 1.218 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.\*

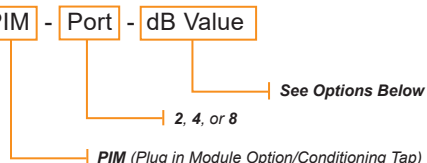
### Features

- Supports DOCSIS 3.1 Expanded Bandwidth up to 1218 MHz
- 5-1218 MHz Bandwidth
- 12 A Current Capacity
- Aluminum Alloy Housing used for Corrosion Resistance
- Neoprene Weather 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
- Epoxy Sealed and Nickel Plated Brass "F" Ports
- Double Polyurethane Coating for Greater Weather Protection
- Operational Temperature Range -40°C to +60°C (-40°F to +140°F)
- Power Passing Option: CB: Continuous Through Signal w/o Faceplate
- Easily Interchangeable 2/4 Port Faceplates
- Aerial or Pedestal Installation for Outdoor Use
- Compliant with SCTE Guidelines
- Printed Circuit Boards
- Splitter and Coupler Options Available
- Flatness In/Out: ± 0.5, Flatness In/Tap: ± 0.5
- Connector: 5/8" - 24 NEF Female for In/Out



### Ordering Information

DT88V - SR - CB - PIM - Port - dB Value



**PIM** (Plug in Module Option/Conditioning Tap) \*Not Standard / Not Available in the US

Model Number	Inner Box	Standard Carton	Carton Weight	dB Values Available
DT88V-SR-CB-x-2xx	10 pcs	40 pcs	17 kg / 37 lbs	-04T, -08, -11, -14, -17, -20, -23, -26, -29, -32, -35
DT88V-SR-CB-x-4xx	10 pcs	40 pcs	18 kg / 40 lbs	-08T, -11, -14, -17, -20, -23, -26, -29, -32, -35
DT88V-SR-CB-x-8xx	10 pcs	40 pcs	21 kg / 45 lbs	-11T, -14, -17, -20, -23, -26, -29, -32, -35

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



Customization available upon request

Insertion Loss (dB)

Frequency	4T	8		11		14		17		20		23		26		29		32 / 35	
		Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
5-10 MHz	T	3.8	3.2	1.8	1.5	1.3	1.1	1.3	1.1	1.0	0.8	1.0	0.8	0.9	0.7	0.9	0.7	0.9	0.7
10-65 MHz	T	3.6	3.0	1.6	1.4	1.1	0.8	1.1	0.7	0.8	0.6	0.8	0.6	0.7	0.6	0.7	0.5	0.7	0.5
65-300 MHz	T	4.0	3.4	1.8	1.5	1.3	0.9	1.2	0.8	0.9	0.7	0.9	0.7	0.9	0.7	0.8	0.6	0.8	0.6
300-550 MHz	T	4.7	4.0	2.5	2.1	1.9	1.4	1.7	1.1	1.3	0.9	1.3	0.9	1.3	0.8	1.2	0.8	1.2	0.8
550-750 MHz	T	5.0	4.3	2.7	2.3	2.1	1.4	1.8	1.2	1.5	1.0	1.5	1.0	1.4	0.8	1.3	0.8	1.3	0.8
750-862 MHz	T	5.0	4.3	3.0	2.5	2.3	1.5	2.0	1.2	1.8	1.3	1.7	1.2	1.7	0.9	1.4	0.9	1.4	0.9
862-1000 MHz	T	5.1	4.4	3.1	2.6	2.4	1.6	2.1	1.3	1.9	1.3	1.8	1.2	1.8	1.1	1.5	1.1	1.5	1.1
1000-1218 MHz	T	5.3	4.6	3.3	3.0	2.6	2.0	2.3	1.8	2.1	1.5	2.0	1.5	2.0	1.5	1.8	1.5	1.8	1.5

Tap Value (dB) ± 1.0 (± 1.5 860-1218MHz)

Frequency	4T	8	11	14	17	20	23	26	29	32 / 35
5-65 MHz	4	8	11	14	17	20	23	26	29	32 / 35
65-860 MHz	4	8	11	14	17	20	23	26	29	32 / 35
860-1218 MHz	4	8	11	14	17	20	23	26	29	32 / 35

Tap to Tap Isolation (dB)

Frequency	(Max)									
	4T	8	11	14	17	20	23	26	29	32 / 35
5-10 MHz	18	18	18	18	18	18	18	18	18	18
10-65 MHz	26	26	26	26	26	26	26	26	26	26
65-860 MHz	24	24	24	24	24	24	24	24	24	24
860-1218 MHz	22	22	22	22	22	22	22	22	22	22

Out to Tap Isolation (dB)

Frequency	(Max)									
	4T	8	11	14	17	20	23	26	29	32 / 35
5-10 MHz	T	21	23	24	26	27	29	30	32	33 / 35
10-65 MHz	T	27	29	30	32	33	35	36	38	39 / 41
65-860 MHz	T	25	27	28	30	31	33	34	36	37 / 39
860-1218 MHz	T	23	25	26	28	29	31	32	34	35 / 37

Return Loss (dB)

Frequency	(Min)									
	4T	8	11	14	17	20	23	26	29	32 / 35
5-10 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
10-47 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
47-950 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
950-1218 MHz	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16

Hum Modulation (dB) @ 12 A

Frequency	(Min)									
	4T	8	11	14	17	20	23	26	29	32 / 35
5-700 MHz	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
700-1218 MHz	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50

General Specifications: Power Passing 12 A, 60/90 VAC

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## 4 Port Specifications - 1.218 GHz

Customization available upon request

### Insertion Loss (dB)

Frequency		8T		11		14		17		20		23		26		29		32		35		
		Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	
Frequency	5-10 MHz	T	3.8	3.2	1.8	1.5	1.3	1.1	1.3	1.1	1.0	0.8	1.0	0.8	0.9	0.7	0.9	0.7	0.9	0.7	0.9	0.7
	10-65 MHz	T	3.6	2.9	1.6	1.3	1.1	0.8	1.1	0.7	0.8	0.6	0.8	0.6	0.7	0.5	0.7	0.5	0.7	0.5	0.7	0.5
	65-300 MHz	T	4.0	3.2	1.8	1.5	1.3	0.9	1.2	0.8	0.9	0.6	0.9	0.6	0.9	0.6	0.8	0.6	0.8	0.6	0.8	0.5
	300-550 MHz	T	4.7	3.8	2.5	2.0	1.9	1.4	1.7	1.0	1.3	0.8	1.3	0.8	1.3	0.8	1.2	0.7	1.2	0.7	1.2	0.7
	550-750 MHz	T	5.0	4.0	2.7	2.2	2.1	1.5	1.8	1.1	1.5	1.0	1.5	1.0	1.4	1.0	1.3	0.9	1.3	0.9	1.3	0.9
	750-862 MHz	T	5.0	4.0	3.0	2.4	2.3	1.6	2.0	1.2	1.8	1.1	1.7	1.1	1.7	1.1	1.4	0.9	1.4	0.9	1.4	0.9
	862-1000 MHz	T	5.1	4.1	3.1	2.5	2.4	1.7	2.1	1.3	1.9	1.2	1.8	1.2	1.8	1.2	1.5	1.0	1.5	1.0	1.5	1.0
	1000-1218 MHz	T	5.3	4.2	3.6	3.0	2.6	2.0	2.3	1.8	2.1	1.5	2.0	1.5	2.0	1.5	1.8	1.5	1.8	1.5	1.8	1.5

### Tap Value (dB) ± 1.0 (± 1.5 860-1218MHz)

Frequency		8T	11	14	17	20	23	26	29	32	35
		5-65 MHz	8	11	14	17	20	23	26	29	32
65-860 MHz	8	11	14	17	20	23	26	29	32	35	
860-1218 MHz	8	11	14	17	20	23	26	29	32	35	

### Tap to Tap Isolation (dB)

(Max)

Frequency		8T	11	14	17	20	23	26	29	32	35
		5-10 MHz	18	18	18	18	18	18	18	18	18
10-65 MHz	26	26	26	26	26	26	26	26	26	26	26
65-860 MHz	24	24	24	24	24	24	24	24	24	24	24
860-1218 MHz	22	22	22	22	22	22	22	22	22	22	22

### Out to Tap Isolation (dB)

(Max)

Frequency		8T	11	14	17	20	23	26	29	32	35
		5-10 MHz	T	23	24	26	27	29	30	32	33
10-65 MHz	T	29	30	32	33	35	36	38	39	41	
65-860 MHz	T	27	28	30	31	33	34	36	37	39	
860-1218 MHz	T	25	26	28	29	31	32	34	35	37	

### Return Loss (dB)

(Min)

Frequency		8T	11	14	17	20	23	26	29	32	35
		5-10 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
10-47 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
47-950 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
950-1218 MHz	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16

### Hum Modulation (dB) @ 12 A

(Min)

Frequency		8T	11	14	17	20	23	26	29	32	35
		5-700 MHz	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
700-1218 MHz	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50

### General Specifications: Power Passing 12 A, 60/90 VAC

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Customization available upon request

Insertion Loss (dB)

Frequency	11T	14		17		20		23		26		29		32		35	
		Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ
5-10 MHz	T	3.8	3.2	1.8	1.5	1.3	1.1	1.3	1.1	1.0	0.9	1.0	0.9	0.9	0.8	0.9	0.8
10-65 MHz	T	3.6	3.1	1.6	1.4	1.1	0.9	1.1	0.9	0.8	0.7	0.8	0.7	0.7	0.6	0.7	0.6
65-300 MHz	T	4.0	3.4	1.8	1.5	1.3	1.1	1.2	1.0	0.9	0.8	0.9	0.8	0.9	0.8	0.8	0.7
300-550 MHz	T	4.7	4.0	2.5	2.1	1.9	1.6	1.7	1.4	1.3	1.1	1.3	1.1	1.3	1.1	1.2	1.0
550-750 MHz	T	5.0	4.2	2.7	2.3	2.1	1.8	1.8	1.5	1.5	1.3	1.5	1.3	1.4	1.2	1.3	1.1
750-862 MHz	T	5.0	4.2	3.0	2.5	2.3	2.0	2.0	1.7	1.8	1.5	1.7	1.4	1.7	1.4	1.4	1.2
862-1000 MHz	T	5.1	4.3	3.1	2.6	2.4	2.1	2.1	1.8	1.9	1.6	1.8	1.3	1.8	1.3	1.5	1.3
1000-1218 MHz	T	5.5	4.5	3.6	3.0	2.6	2.2	2.3	2.0	2.1	1.8	2.0	1.7	2.0	1.5	1.8	1.5

Tap Value (dB) ± 1.0 (± 1.5 860-1218MHz)

Frequency	11T	14	17	20	23	26	29	32	35
5-65 MHz	11	14	17	20	23	26	29	32	35
65-860 MHz	11	14	17	20	23	26	29	32	35
860-1218 MHz	11	14	17	20	23	26	29	32	35

Tap to Tap Isolation (dB)

(Max)	11T	14	17	20	23	26	29	32	35
5-10 MHz	18	18	18	18	18	18	18	18	18
10-65 MHz	26	26	26	26	26	26	26	26	26
65-860 MHz	24	24	24	24	24	24	24	24	24
860-1218 MHz	22	22	22	22	22	22	22	22	22

Out to Tap Isolation (dB)

(Max)	11T	14	17	20	23	26	29	32	35
5-10 MHz	T	24	26	27	29	30	32	33	35
10-65 MHz	T	30	32	33	35	36	38	39	41
65-860 MHz	T	28	30	31	33	34	36	37	39
860-1218 MHz	T	26	28	29	31	32	34	35	37

Return Loss (dB)

(Min)	11T	14	17	20	23	26	29	32	35
5-10 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
10-47 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
47-950 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
950-1218 MHz	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16

Hum Modulation (dB) @ 12 A

(Min)	11T	14	17	20	23	26	29	32	35
5-700 MHz	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
700-1218 MHz	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50

General Specifications: Power Passing 12 A, 60/90 VAC

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### Description

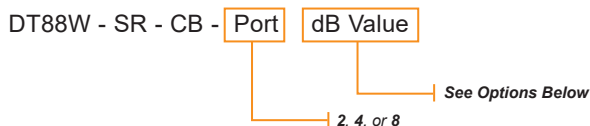
Taikan's 88 series 1.8 GHz taps have been designed with the future of the CATV industry in mind. All units come complete with a factory installed power passing bar for uninterrupted service when the faceplate is removed. Interchangeable faceplates allow for future network growth while minimizing costly 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
- 12 A Current Capacity
- Aluminum Alloy Housing used for Corrosion Resistance
- Neoprene Weather Gasket and RFI Shielding at 120 dB
- Blocking Capacitors on the "F" ports for Extended Surge Resistance
- ANSII/SCTE 01-2015 Fully Compliant F-Connectors
- Epoxy Sealed and Nickel Plated Brass "F" Ports
- Double Polyurethane Coating for Greater Weather Protection
- Operational Temperature Range -40°C to +60°C (-40°F to +140°F)
- Power Passing Option: CB: Continuous Through Signal without Faceplate
- Easily Interchangeable 2/4/8 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: IEEE C62.41-1991 Category B3/6kV Combination Wave, 3000 A



### Ordering Information



Model Number	Inner Box	Standard Carton	Carton Weight	dB Values Available
DT88W-SR-CB-2xx	10 pcs	40 pcs	17 kg / 37 lbs	-04T, -08, -11, -14, -17, -20, -23, -26, -29, -32, -35
DT88W-SR-CB-4xx	10 pcs	40 pcs	18 kg / 40 lbs	-08T, -11, -14, -17, -20, -23, -26, -29, -32, -35
DT88W-SR-CB-8xx	10 pcs	40 pcs	21 kg / 45 lbs	-11T, -14, -17, -20, -23, -26, -29, -32, -35

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



## 2 Port Specifications

Customization available upon request

### Insertion Loss (dB)

Frequency

	4T	8	11	14	17	20	23	26	29	32
5-10 MHz	T	3.8	1.8	1.3	1.3	1.0	1.0	0.9	0.9	0.9
10-65 MHz	T	3.6	1.6	1.1	1.1	0.8	0.8	0.7	0.7	0.7
65-300 MHz	T	4.0	1.8	1.3	1.2	0.9	0.9	0.9	0.8	0.8
300-550 MHz	T	4.7	2.5	1.9	1.7	1.3	1.3	1.3	1.2	1.2
550-750 MHz	T	5.0	2.7	2.1	1.8	1.5	1.5	1.4	1.3	1.3
750-862 MHz	T	5.0	3.0	2.3	2.0	1.8	1.7	1.7	1.4	1.4
862-1000 MHz	T	5.1	3.1	2.4	2.1	1.9	1.8	1.8	1.5	1.5
1000-1218 MHz	T	5.3	3.3	2.6	2.3	2.1	2.0	2.0	1.7	1.7
1218-1500 MHz	T	5.6	4.0	3.0	2.6	2.5	2.4	2.4	2.4	2.4
1500-1700 MHz	T	5.8	4.5	3.5	3.0	2.5	2.4	2.4	3.4	2.4
1700-1800 MHz	T	6.0	5.2	3.5	3.5	3.0	2.8	2.8	2.8	2.8

### Tap Value (dB) Tolerance 5-900 MHz ± 1.0 dB, 901-1800 MHz ± 1.5 dB

Frequency

	4T	8	11	14	17	20	23	26	29	32
5-65 MHz	4	8	11	14	17	20	23	26	29	32
65-860 MHz	4	8	11	14	17	20	23	26	29	32
860-1218 MHz	4	8	11	14	17	20	23	26	29	32
1218-1500 MHz	4	8	11	14	17	20	23	26	29	32
1500-1700 MHz	4	9	12	14	17	20	23	26	29	32
1700-1800 MHz	4	10	12.5	14.5	17	20	23	26	29	32

### Tap to Tap Isolation (dB)

Frequency

(Max)	4T	8	11	14	17	20	23	26	29	32
5-10 MHz	18	18	18	18	18	18	18	18	18	18
10-65 MHz	26	26	26	26	26	26	26	26	26	26
65-860 MHz	24	24	24	24	24	24	24	24	24	24
860-1218 MHz	22	22	22	22	22	22	22	22	22	22
1218-1500 MHz	20	20	20	20	20	20	20	20	20	20
1500-1700 MHz	17	17	17	17	17	17	17	17	17	17
1700-1800 MHz	17	17	17	17	17	17	17	17	17	17

## 2 Port Specifications Cont'd

Customization available upon request

### Output to Tap Isolation (dB)

	(Max)	4T	8	11	14	17	20	23	26	29	32
Frequency	5-10 MHz	T	21	23	24	26	27	29	30	32	33
	10-65 MHz	T	27	29	30	32	33	35	36	38	39
	65-860 MHz	T	25	27	28	30	31	33	34	36	37
	860-1218 MHz	T	23	25	26	28	29	31	32	34	35
	1218-1500 MHz	T	25	25	25	27	27	30	31	30	30
	1500-1700 MHz	T	20	20	20	22	23	27	30	27	27
	1700-1800 MHz	T	20	20	20	22	23	27	30	27	27

### Return Loss (dB)

	(Min)	4T	8	11	14	17	20	23	26	29	32
Frequency	5-10 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
	10-47 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
	47-950 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
	950-1218 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1218-1500 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1500-1700 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1700-1800 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14

## 4 Port Specifications

Customization available upon request

### Insertion Loss (dB)

	8T	11	14	17	20	23	26	29	32	35
5-10 MHz	T	3.8	1.8	1.3	1.3	1.0	1.0	0.9	0.9	0.9
10-65 MHz	T	3.6	1.6	1.1	1.1	0.8	0.8	0.7	0.7	0.7
65-300 MHz	T	4.0	1.8	1.3	1.2	0.9	0.9	0.9	0.8	0.8
300-550 MHz	T	4.7	2.5	1.9	1.7	1.3	1.3	1.3	1.2	1.2
550-750 MHz	T	5.0	2.7	2.1	1.8	1.5	1.5	1.4	1.3	1.3
750-862 MHz	T	5.0	3.0	2.3	2.0	1.8	1.7	1.7	1.4	1.4
862-1000 MHz	T	5.1	3.1	2.4	2.1	1.9	1.8	1.8	1.5	1.5
1000-1218 MHz	T	5.3	3.3	2.6	2.3	2.1	2.0	2.0	1.7	1.7
1218-1500 MHz	T	5.4	4.0	3.0	2.5	2.5	2.4	2.4	2.4	2.4
1500-1700 MHz	T	6.0	4.8	3.5	3.0	2.8	2.5	2.5	2.5	2.5
1700-1800 MHz	T	6.6	5.0	4.0	3.5	3.0	2.8	2.8	2.8	2.8

### Tap Value (dB) Tolerance 5-900 MHz $\pm 1.0$ dB, 901-1800 MHz $\pm 1.5$ dB

	8T	11	14	17	20	23	26	29	32	35
5-65 MHz	8	11	14	17	20	23	26	29	32	35
65-860 MHz	8	11	14	17	20	23	26	29	32	35
860-1218 MHz	8	11	14	17	20	23	26	29	32	35
1218-1500 MHz	8	12.5	15	17	20	23	26	29	32	35
1500-1700 MHz	8	13	15	17	20	23	26	29	32	35
1700-1800 MHz	8	13.5	15.5	17.5	20	23	26	29	32	35

### Tap to Tap Isolation (dB)

(Max)	8T	11	14	17	20	23	26	29	32	35
5-10 MHz	18	18	18	18	18	18	18	18	18	18
10-65 MHz	26	26	26	26	26	26	26	26	26	26
65-860 MHz	24	24	24	24	24	24	24	24	24	24
860-1218 MHz	22	22	22	22	22	22	22	22	22	22
1218-1500 MHz	20	20	20	20	20	20	20	20	20	20
1500-1700 MHz	17	17	17	17	17	17	17	17	17	17
1700-1800 MHz	17	17	17	17	17	17	17	17	17	17

## 4 Port Specifications Cont'd

Customization available upon request

### Output to Tap Isolation (dB)

		(Max)	8T	11	14	17	20	23	26	29	32	35
Frequency	5-10 MHz	T	23	24	26	27	29	30	32	33	35	
	10-65 MHz	T	29	30	32	33	35	36	38	39	41	
	65-860 MHz	T	27	28	30	31	33	34	36	37	39	
	860-1218 MHz	T	25	26	28	29	31	32	34	35	37	
	1218-1500 MHz	T	25	25	25	27	27	30	30	30	30	
	1500-1700 MHz	T	20	20	22	22	23	27	27	27	27	
	1700-1800 MHz	T	20	20	22	22	23	27	27	27	27	

### Return Loss (dB)

		(Min)	8T	11	14	17	20	23	26	29	32	35
Frequency	5-10 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
	10-47 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
	47-950 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
	950-1218 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1218-1500 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1500-1700 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1700-1800 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14

## 8 Port Specifications

Customization available upon request

### Insertion Loss (dB)

	11T	14	17	20	23	26	29	32	35
5-10 MHz	T	3.8	1.8	1.3	1.3	1.0	1.0	0.9	0.9
10-65 MHz	T	3.6	1.6	1.1	1.1	0.8	0.8	0.7	0.7
65-300 MHz	T	4.0	1.8	1.3	1.2	0.9	0.9	0.9	0.8
300-550 MHz	T	4.7	2.5	1.9	1.7	1.3	1.3	1.3	1.2
550-750 MHz	T	5.0	2.7	2.1	1.8	1.5	1.5	1.4	1.3
750-862 MHz	T	5.0	3.0	2.3	2.0	1.8	1.7	1.7	1.4
862-1000 MHz	T	5.1	3.1	2.4	2.1	1.9	1.8	1.8	1.5
1000-1218 MHz	T	5.3	3.3	2.6	2.3	2.1	2.0	2.0	1.7
1218-1500 MHz	T	5.6	4.0	3.0	2.6	2.5	2.6	2.6	2.6
1500-1700 MHz	T	5.8	4.5	3.5	3.0	2.5	3.0	3.0	3.0
1700-1800 MHz	T	6.0	5.2	3.5	3.5	3.0	3.5	3.5	3.5

### Tap Value (dB) Tolerance 5-900 MHz $\pm 1.0$ dB, 901-1800 MHz $\pm 1.5$ dB

	11T	14	17	20	23	26	29	32	35
5-65 MHz	11	14	17	20	23	26	29	32	35
65-860 MHz	11	14	17	20	23	26	29	32	35
860-1218 MHz	11	14	17	20	23	26	29	32	35
1218-1500 MHz	11	15	17	20	23	26.5	29	32	35
1500-1700 MHz	11	15.5	18	20.5	23	26.5	29	32	35
1700-1800 MHz	11	15.5	18.5	20.5	23.5	27	29	32	35

### Tap to Tap Isolation (dB)

	(Max)	11T	14	17	20	23	26	29	32	35
5-10 MHz	18	18	18	18	18	18	18	18	18	18
10-65 MHz	26	26	26	26	26	26	26	26	26	26
65-860 MHz	24	24	24	24	24	24	24	24	24	24
860-1218 MHz	22	22	22	22	22	22	22	22	22	22
1218-1500 MHz	20	20	20	20	20	20	20	20	20	20
1500-1700 MHz	17	17	17	17	17	17	17	17	17	17
1700-1800 MHz	17	17	17	17	17	17	17	17	17	17



## 8 Port Specifications Cont'd

Customization available upon request

### Output to Tap Isolation (dB)

		(Max)	11T	14	17	20	23	26	29	32	35
Frequency	5-10 MHz	T	24	26	27	29	30	32	33	35	
	10-65 MHz	T	30	32	33	35	36	38	39	41	
	65-860 MHz	T	28	30	31	33	34	36	37	39	
	860-1218 MHz	T	26	28	29	31	32	34	35	37	
	1218-1500 MHz	T	26	25	25	25	30	25	30	30	
	1500-1700 MHz	T	25	25	25	25	30	25	30	30	
	1700-1800 MHz	T	25	25	25	25	30	25	30	30	

### Tap Return Loss (dB)

		(Min)	11T	14	17	20	23	26	29	32	35
Frequency	5-10 MHz	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
	10-47 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
	47-950 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
	950-1218 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1218-1500 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1500-1700 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
	1700-1800 MHz	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14

# PLUG IN MODULE (PIM) SERIES

Cable Products, Mainline Passives, Conditioning Taps

## Features

- 5–1218 MHz Bandwidth
- 12 Amp Current Capacity
- CB: Continuous Through Signal w/o Faceplate
- PIM: Plug In Jumper Installed in the Unit.
- Aluminum Alloy Housing - used for Corrosion Resistance
- Double Polyurethane Coating for Greater Weather Protection
- Neoprene Gasket and RFI Shielding Gasket
- Printed Circuit Board

## General Specifications

Flatness (5-1218 MHz) |  $\pm 0.35$  dB (minimum)  
 RFI (5-1218 MHz) | -100 dB (minimum)  
 Current | 12 Amps Continuous  
 Nominal Impedance | 75 Ohms

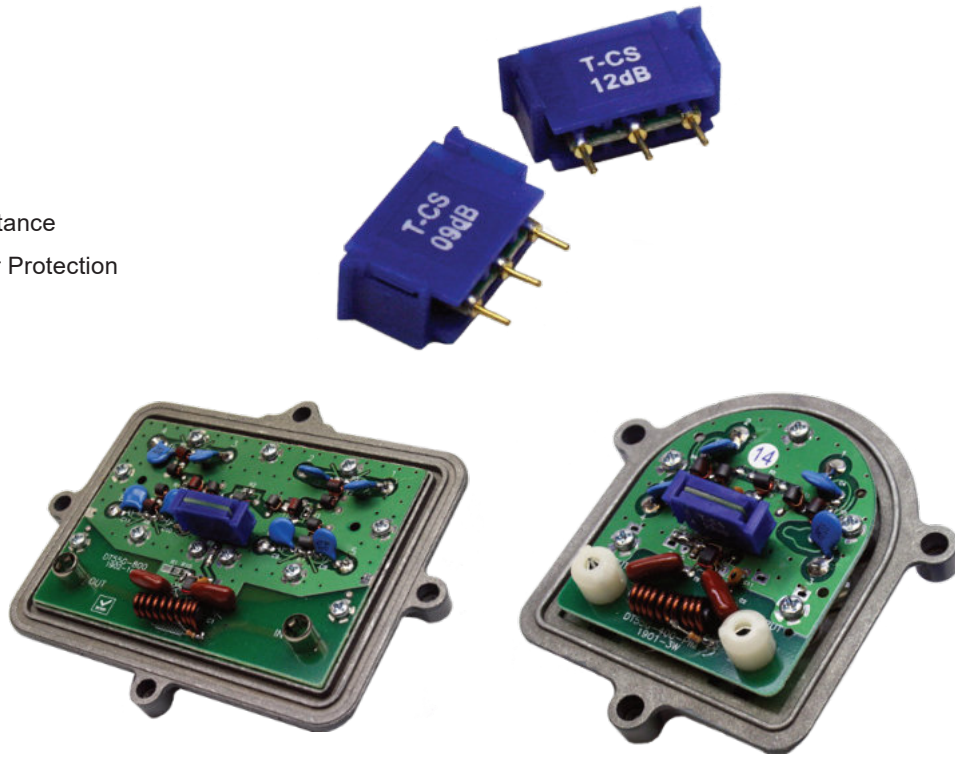
## Ordering Information

DT XX V - SR - CB - PIM - x x

| 33, 55, 66, or 88

| see dB values below

| 2, 4, or 8 port



Model Number	Standard Carton	Inner Box	Carton Weight	dB Values Available
DTXXV-SR-CB-PIM-2xx	50 pcs (40 pcs)**	10 pcs	17 kg / 37 lbs	-04T, -08, -11, -14, -17, -20, -23, -26, -29, -32, -35
DTXXV-SR-CB-PIM-4xx	50 pcs (40 pcs)**	10 pcs	18 kg / 40 lbs	-08T, -11, -14, -17, -20, -23, -26, -29, -32, -35
DTXXV-SR-CB-PIM-8xx	40 pcs	10 pcs	21 kg / 46 lbs	-11T, -14, -17, -20, -23, -26, -29, -32, -35

\*\*66, 88 series are 40 pcs

PIM - x x x x x

| U: (5-42 MHz); E: (5-65 MHz)  
 J: (5-55 MHz); S: (5-30 MHz) M: (5-85 MHz) (use for RPA, FPA, or HP)

| 2, 4, 6, 8, 10 (use for RPA)

| 3, 5, 6, 8, 10, 11, 13, 15 dB (use for EQ)

| 4, 7, 10, 13 dB (use for CS or FPA)

| CS-, EQ-, FPA-, RPA-, HP-

Model Number	Std Qty	Inner Box	Description	Values (dB)
PIM-CS-xx	30 pcs	10 pcs	Cable Simulator - Maintains low loss in the return drop path, while attenuating the forward drop signals to the proper system levels.	4, 7, 10, 13
PIM-EQ-xx	30 pcs	10 pcs	Cable Equalizer- Attenuates the return path signal from the customer premise, thus reducing the effects of system ingress. In addition, tightens the window of return path signal variation allowing for efficient operation of an optical nodes' return transmitter.	3, 5, 6, 8, 10, 11, 13, 15
PIM-RPA-xx-x	30 pcs	10 pcs	Return Path Attenuator- Similar to PIM-EQ, except is split dependent and provides less impact on the forward drop signal.	2, 4, 6, 8, 10
PIM-FPA-xx-x	30 pcs	10 pcs	Forward Path Attenuator - Attenuates the forward path to reduce the signal level into the customer premise	4, 7, 10, 13
PIM-JP	30 pcs	10 pcs	Jumper - To ensure the continued signal transmission.	
PIM-HP-xx	30 pcs	10 pcs	High Pass Plug In - Similar to PIM-RPA but attenuates the return path even more. Reduces system expense by not requiring a filter on every port.	Customizable

\*Currently Unavailable in the United States

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**CS: Cable Simulator / PIM-CS-xx dB**

**Insertion Loss (dB)**

Frequency	CS-4	CS-7	CS-10	CS-13
5-42 MHz	1.0	1.0	1.0	1.0
42-400 MHz	2.0	2.5	3.0	5.0
400-750 MHz	3.0	5.0	7.5	9
750-1002 MHz	3.8	6.5	10	12.5
1002-1218 MHz	4.5	8	12	16

**Return Loss (dB)**

Frequency	CS-4	CS-7	CS-10	CS-13
5-1002 MHz	16	16	16	16
1002-1218 MHz	12	12	12	12

**FPA: Forward Path Attenuator / PIM-FPA-xx dB**

**Insertion Loss (dB)**

Frequency	FPA-4	FPA-7	FPA-10	FPA-13
5-42 MHz	1.0	1.0	1.0	1.0
42-400 MHz	3.0	6.0	9.0	12.0
400-750 MHz	3.0	6.0	9.0	12.0
750-1002 MHz	3.8	6.5	10	13.0
1002-1218 MHz	3.8	6.5	10	13.0

**Return Loss (dB)**

Frequency	FPA-4	FPA-7	FPA-10	FPA-13
5-1002 MHz	16	16	16	16
1002-1218 MHz	12	12	12	12

**EQ: Cable Equalizer / PIM-EQ-xx dB**

**Insertion Loss (dB)**

Frequency	EQ-3	EQ-5	EQ-6	EQ-8	EQ-10	EQ-11	EQ-13	EQ-15
5-42 MHz	3.0	4.5	6.0	7.5	9.5	11	13	14.5
42-400 MHz	2.5	3.0	4.0	5.0	5.5	6.5	7.0	7.5
400-750 MHz	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0
750-1002 MHz	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0
1002-1218 MHz	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2

**Return Loss (dB)**

Frequency	EQ-3	EQ-5	EQ-6	EQ-8	EQ-10	EQ-11	EQ-13	EQ-15
5-1002 MHz	16	16	16	16	16	16	16	16
1002-1218 MHz	12	12	12	12	12	12	12	12

**RPA: Return Path Attenuator / PIM-RPA-xx dB**

**Insertion Loss (dB)**

Frequency	RPA-2	RPA-4	RPA-6	RPA-8	RPA-10
5-15 MHz	2.0	4.0	6.0	8.0	10.0
15-42 MHz	6.0	8.0	10.0	12.0	14.0
42-400 MHz	2.0	2.0	2.0	2.0	2.0
400-750 MHz	1.5	1.5	1.5	1.5	1.5
750-1002 MHz	1.0	1.0	1.0	1.0	1.0
1002-1218 MHz	1.2	1.2	1.2	1.2	1.2

**Return Loss (dB)**

Frequency	RPA-2	RPA-4	RPA-6	RPA-8	RPA-10
5-1002 MHz	16	16	16	16	16
1002-1218 MHz	12	12	12	12	12

**HPF: Highpass Filter / PIM-HP-xx dB**

**Insertion Loss (dB)**

Frequency	HPF-54	
5-42 MHz	45.0	<b>*54 MHz Filter Design Shown</b>
42-400 MHz	3.0	
400-750 MHz	2.5	
750-1002 MHz	1.0	
1002-1218 MHz	1.0	

**Return Loss (dB)**

Frequency	HPF-54
5-1002 MHz	16
1002-1218 MHz	12

\*Currently Unavailable in the United States

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