

## Description

Taikan's 33 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. \*

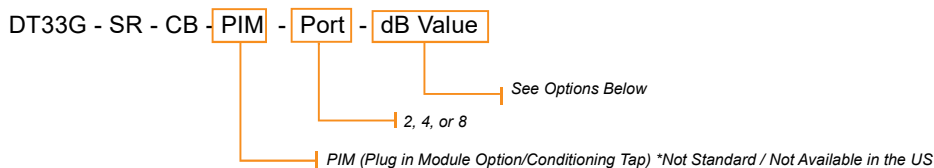
# Taikan

## Features

- 5-1002 MHz Bandwidth (1.2 GHz option also available)
- 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
- Min. 1.5 µm NiSn/Ni plating & F port Cu/Brass material
- Double Polyurethane Coating for Greater Weather Protection
- 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 Water Test, Salt Spray Test, Drop Test & Air Leakage Guidelines
- IPX8 Ingress Standard Protection
- PIM Equalizable Tap Options Available
- Splitter and Coupler Options Available
- 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
- 75 Ohm impedance
- Optional F Port pass 1A current



## Ordering Information



| Model Number      | Inner Box | Standard Carton | Carton Weight  | dB Values Available                               |
|-------------------|-----------|-----------------|----------------|---------------------------------------------------|
| DT33G-SR-CB-x-2xx | 10 pcs    | 50 pcs          | 18 kg / 40 lbs | -04T, -08, -11, -14, -17, -20, -23, -26, -29, -32 |
| DT33G-SR-CB-x-4xx | 10 pcs    | 50 pcs          | 19 kg / 42 lbs | -08T, -11, -14, -17, -20, -23, -26, -29, -32, -35 |
| DT33G-SR-CB-x-8xx | 10 pcs    | 40 pcs          | 23 kg / 51 lbs | -11T, -14, -17, -20, -23, -26, -29, -32, -35      |



## 2 Port Specifications

Customization available upon request

### Insertion Loss (dB) Tolerance: $\pm 0.25$

|              | 4T | 8   | 11  | 14  | 17  | 20  | 23  | 26  | 29  |
|--------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 15-40 MHz    | T  | 4.0 | 2.0 | 1.5 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| 40-470 MHz   | T  | 4.5 | 2.5 | 2.2 | 1.5 | 1.1 | 1.1 | 1.1 | 1.1 |
| 470-1000 MHz | T  | 5.0 | 3.4 | 2.5 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 |

### Tap Loss (dB)

|             | 4T      | 8       | 11      | 14      | 17      | 20      | 23      | 26      | 29      |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15-1000 MHz | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 |

### Tap to Tap Isolation (dB)

|              | 4T | 8  | 11 | 14 | 17 | 20 | 23 | 26 | 29 |
|--------------|----|----|----|----|----|----|----|----|----|
| 15-40 MHz    | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 40-470 MHz   | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 470-1000 MHz | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

### Output to Tap Isolation (dB)

|              | 4T | 8  | 11 | 14 | 17 | 20 | 23 | 26 | 29 |
|--------------|----|----|----|----|----|----|----|----|----|
| 15-40 MHz    | T  | 24 | 24 | 24 | 27 | 32 | 35 | 35 | 38 |
| 40-470 MHz   | T  | 24 | 24 | 28 | 30 | 32 | 34 | 35 | 39 |
| 470-1000 MHz | T  | 20 | 22 | 20 | 24 | 26 | 28 | 30 | 32 |

### Input / Output / Tap Return Loss (dB) Tolerance: - 1.5

|              | 4T | 8 | 11 | 14 | 17       | 20 | 23 | 26 | 29 |
|--------------|----|---|----|----|----------|----|----|----|----|
| 15-40 MHz    |    |   |    |    | 18       |    |    |    |    |
| 40-80 MHz    |    |   |    |    | 18=>16.5 |    |    |    |    |
| 80-160 MHz   |    |   |    |    | 16.5=>15 |    |    |    |    |
| 160-320 MHz  |    |   |    |    | 15=>13.5 |    |    |    |    |
| 320-640 MHz  |    |   |    |    | 13.5=>12 |    |    |    |    |
| 640-1000 MHz |    |   |    |    | 12=>10   |    |    |    |    |

### Screening Effectiveness(dB)

|              | Typ |
|--------------|-----|
| 5-10 MHz     | 85  |
| 10-12 MHz    | 85  |
| 12-300 MHz   | 85  |
| 301-470 MHz  | 80  |
| 471-1000 MHz | 75  |

## 4 Port Specifications

Customization available upon request

### Insertion Loss (dB) Tolerance: $\pm 0.25$

|           |              | 8 | 11  | 14  | 17  | 20  | 23  | 26  | 29  |
|-----------|--------------|---|-----|-----|-----|-----|-----|-----|-----|
| Frequency | 15-40 MHz    | T | 3.5 | 2.0 | 1.6 | 1.1 | 1.0 | 1.0 | 1.0 |
|           | 40-470 MHz   | T | 4.5 | 2.2 | 1.8 | 1.4 | 1.2 | 1.1 | 1.1 |
|           | 470-1000 MHz | T | 5.0 | 4.0 | 3.5 | 3.0 | 2.0 | 2.0 | 2.0 |

### Tap Loss (dB)

|           |             | 8       | 11      | 14      | 17      | 20      | 23      | 26      | 29      |
|-----------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency | 15-1000 MHz | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 |

### Tap to Tap Isolation (dB)

|           |              | 8  | 11 | 14 | 17 | 20 | 23 | 26 | 29 |
|-----------|--------------|----|----|----|----|----|----|----|----|
| Frequency | 15-40 MHz    | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
|           | 40-470 MHz   | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
|           | 470-1000 MHz | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

### Output to Tap Isolation (dB)

|           |              | 8   | 11 | 14 | 17 | 20 | 23 | 26 | 29 |
|-----------|--------------|-----|----|----|----|----|----|----|----|
| Frequency | 15-40 MHz    | N/A | 25 | 27 | 28 | 31 | 33 | 36 | 40 |
|           | 40-470 MHz   | N/A | 25 | 27 | 30 | 31 | 33 | 36 | 40 |
|           | 470-1000 MHz | N/A | 20 | 22 | 23 | 23 | 25 | 30 | 32 |

### Input / Output / Tap Return Loss (dB) Tolerance: - 1.5

|           |              | 8 | 11 | 14 | 17       | 20 | 23 | 26 | 29 |
|-----------|--------------|---|----|----|----------|----|----|----|----|
| Frequency | 15-40 MHz    |   |    |    | 18       |    |    |    |    |
|           | 40-80 MHz    |   |    |    | 18=>16.5 |    |    |    |    |
|           | 80-160 MHz   |   |    |    | 16.5=>15 |    |    |    |    |
|           | 160-320 MHz  |   |    |    | 15=>13.5 |    |    |    |    |
|           | 320-640 MHz  |   |    |    | 13.5=>12 |    |    |    |    |
|           | 640-1000 MHz |   |    |    | 12=>10   |    |    |    |    |

### Screening Effectiveness(dB)

|           |              | Typ |
|-----------|--------------|-----|
| Frequency | 5-10 MHz     | 85  |
|           | 10-12 MHz    | 85  |
|           | 12-300 MHz   | 85  |
|           | 301-470 MHz  | 80  |
|           | 471-1000 MHz | 75  |

## 8 Port Specifications

Customization available upon request

### Insertion Loss (dB) Tolerance: $\pm 0.25$

|              | 11 | 14  | 17  | 20  | 23  | 26  | 29  |
|--------------|----|-----|-----|-----|-----|-----|-----|
| 15-40 MHz    | T  | 3.6 | 2.0 | 1.4 | 1.2 | 0.8 | 0.7 |
| 40-470 MHz   | T  | 4.2 | 2.6 | 1.8 | 1.4 | 1.2 | 1.2 |
| 470-1000 MHz | T  | 5.3 | 3.7 | 3.2 | 2.5 | 2.0 | 2.0 |

### Tap Loss (dB)

|             | 11      | 14      | 17      | 20      | 23      | 26      | 29      |
|-------------|---------|---------|---------|---------|---------|---------|---------|
| 15-1000 MHz | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 | +/-1.50 |

### Tap to Tap Isolation (dB)

|              | 11 | 14 | 17 | 20 | 23 | 26 | 29 |
|--------------|----|----|----|----|----|----|----|
| 15-40 MHz    | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 40-470 MHz   | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 470-1000 MHz | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

### Output to Tap Isolation (dB)

|              | 11  | 14 | 17 | 20 | 23 | 26 | 29 |
|--------------|-----|----|----|----|----|----|----|
| 15-40 MHz    | N/A | 25 | 25 | 28 | 31 | 33 | 40 |
| 40-470 MHz   | N/A | 25 | 25 | 25 | 30 | 30 | 40 |
| 470-1000 MHz | N/A | 20 | 20 | 22 | 26 | 28 | 30 |

### Input / Output / Tap Return Loss (dB) Tolerance: - 1.5

|              | 11 | 14 | 17 | 20       | 23 | 26 | 29 |
|--------------|----|----|----|----------|----|----|----|
| 15-40 MHz    |    |    |    | 18       |    |    |    |
| 40-80 MHz    |    |    |    | 18=>16.5 |    |    |    |
| 80-160 MHz   |    |    |    | 16.5=>15 |    |    |    |
| 160-320 MHz  |    |    |    | 15=>13.5 |    |    |    |
| 320-640 MHz  |    |    |    | 13.5=>12 |    |    |    |
| 640-1000 MHz |    |    |    | 12=>10   |    |    |    |

### Screening Effectiveness(dB)

|              | Typ |
|--------------|-----|
| 5-10 MHz     | 85  |
| 10-12 MHz    | 85  |
| 12-300 MHz   | 85  |
| 301-470 MHz  | 80  |
| 471-1000 MHz | 75  |