

# Wide Band Tappers

Low PIM (-161 dBc) 350-5930 MHz

ventev®

Connect, Protect, and Enable™

Ventev's Low PIM Tappers include a wide band design (350-5930 MHz) supporting public safety bands in UHF, 700/800, LTE low-band/high-band, CBRS, and LAA. This taper is very low PIM (-161 dBc) with a highly reliable design and low insertion loss. It is suitable for indoor and outdoor applications (IP67). The taper has a compact size and is lightweight, allowing for easy installation. This taper includes an N female connector.

## Features & Benefits

- Wide band design covering 350-5930 MHz supporting public safety bands in UHF, 700/800, LTE low-band/high-band, CBRS and LAA.
- Very low PIM (-161 dBc) with highly reliable design and low insertion loss.
- Suitable for indoor and outdoor applications (IP67).
- Compact size, light weight, and easy to be installed.



## Electrical Specifications

| MFG Part #                |           | VEN-03TAP-360-xF              | VEN-05TAP-360-xF  | VEN-06TAP-360-xF  | VEN-08TAP-360-xF  | VEN-10TAP-360-xF   | VEN-13TAP-360-xF | VEN-15TAP-360-xF | VEN-20TAP-360-xF | VEN-30TAP-360-xF |
|---------------------------|-----------|-------------------------------|-------------------|-------------------|-------------------|--------------------|------------------|------------------|------------------|------------------|
| Nominal Power Split Ratio |           | 2:1 (3 dB)                    | 3:1 (5 dB)        | 4:1 (6 dB)        | 6.1 (8 dB)        | 10:1 (10 dB)       | 20:1 (13 dB)     | 30:1 (15 dB)     | 100:1 (20 dB)    | 1000:1 (30 dB)   |
| Insertion Loss (dB)       | 350-380   | ≤1.8                          | ≤1.55             | ≤1.2              | ≤0.9              | ≤0.7               | ≤0.5             | ≤0.4             | ≤0.4             | ≤0.3             |
|                           | 380-520   | ≤2.0                          | ≤1.55             | ≤1.3              | ≤1.0              | ≤0.7               | ≤0.5             | ≤0.4             | ≤0.4             | ≤0.3             |
|                           | 617-960   | ≤2.1                          | ≤1.65             | ≤1.4              | ≤1.1              | ≤0.7               | ≤0.5             | ≤0.4             | ≤0.4             | ≤0.3             |
|                           | 1710-2700 | ≤2.1                          | ≤1.65             | ≤1.6              | ≤1.1              | ≤0.7               | ≤0.5             | ≤0.4             | ≤0.4             | ≤0.3             |
|                           | 3500-4500 | ≤2.1                          | ≤1.7              | ≤1.4              | ≤1.2              | ≤0.7               | ≤0.5             | ≤0.4             | ≤0.4             | ≤0.3             |
|                           | 4900-5850 | ≤2.1                          | ≤1.65             | ≤1.4              | ≤1.1              | ≤0.7               | ≤0.5             | ≤0.4             | ≤0.4             | ≤0.3             |
|                           | 5850-5930 | ≤2.0                          | ≤1.6              | ≤1.3              | ≤1.1              | ≤0.7               | ≤0.5             | ≤0.4             | ≤0.4             | ≤0.3             |
| Coupling (dB)             | 350-380   | -4.8<br>+0/-1.3               | -6.1<br>+0/-1.1   | -7.0<br>+0.4/-1.0 | -8.2<br>+0.4/-1.0 | -10.1<br>+0.4/-1.0 | -13.1 ±0.8       | -15.1 ±0.8       | -20.1 ±0.8       | 30.1 ±1.2        |
|                           | 380-520   | -4.8<br>+0.3/-1.2             | -6.1<br>+0.3/-1.0 | -7.0<br>+0.3/-1.0 | -8.2<br>+0.3/-1.0 | -10.1<br>+0.3/-1.0 | -13.1 ±0.8       | -15.1 ±0.8       | -20.1 ±0.8       | 30.1 ±1.2        |
|                           | 617-960   | -4.8 ±0.7                     | -6.1 ±0.6         | -7.0 ±0.6         | -8.2 ±0.6         | -10.1 ±0.5         | -13.1 ±0.5       | -15.1 ±0.6       | -20.1 ±0.6       | 30.1 ±1.2        |
|                           | 1710-2700 | -4.8 ±0.8                     | -6.1 ±0.7         | -7.0 ±0.7         | -8.2 ±0.7         | -10.1 ±0.7         | -13.1 ±0.7       | -15.1 ±0.7       | -20.1 ±1.0       | 30.1 ±1.2        |
|                           | 3500-4500 | -4.8<br>+0.5/-1.5             | -6.1<br>+0.5/-1.5 | -7.0 ±1.0         | -8.2 ±1.0         | -10.1 ±1.0         | -13.1 ±1.0       | -15.1 ±1.0       | -20.1 ±1.5       | 30.1 ±1.6        |
|                           | 4900-5850 | -4.8<br>+0.5/-1.0             | -6.1<br>+0.5/-1.0 | -7.0 ±1.0         | -8.2 ±1.0         | -10.1 ±1.0         | -13.1 ±1.0       | -15.1 ±1.0       | -20.1 ±1.5       | 30.1 ±2.0        |
|                           | 5850-5930 | -4.8<br>+0.5/-1.0             | -6.1<br>+0.5/-1.0 | -7.0 ±1.0         | -8.2 ±1.0         | -10.1 ±1.0         | -13.1 ±1.0       | -15.1 ±1.0       | -20.1 ±1.5       | 30.1 ±2.5        |
| VSWR                      | 698-2700  | ≤1.35                         | ≤1.35             | ≤1.3              | ≤1.3              | ≤1.25              | ≤1.25            | ≤1.25            | ≤1.25            | ≤1.25            |
|                           | 350-5930  | ≤1.5                          | ≤1.4              | ≤1.4              | ≤1.3              | ≤1.3               | ≤1.3             | ≤1.3             | ≤1.3             | ≤1.3             |
| 3rd Order PIM             |           | ≤-161 dBc at 2x43 dBm Carrier |                   |                   |                   |                    |                  |                  |                  |                  |
| Power Rating              |           | 500 W, 3 kW Peak              |                   |                   |                   |                    |                  |                  |                  |                  |
| Impedance                 |           | 50 Ohms                       |                   |                   |                   |                    |                  |                  |                  |                  |
| Connectors                |           | N-Female or 4.3-10 Female     |                   |                   |                   |                    |                  |                  |                  |                  |



All product specifications are subject to change without notice or obligation.

# Wide Band Tappers

Low PIM (-161 dBc) 350-5930 MHz

## Products

| Description           | Tapper with 4.3-10 Female Connector |               | Tapper with N-type Female Connector |        |
|-----------------------|-------------------------------------|---------------|-------------------------------------|--------|
|                       | MFG Part #                          | SKU           | MFG Part #                          | SKU    |
| 3 dB (2:1) Tapper     | VEN-03TAP-360-4F                    | 296874        | VEN-03TAP-360-NF                    | 232184 |
| 5 dB (3:1) Tapper     | VEN-05TAP-360-4F                    | 259863        | VEN-05TAP-360-NF                    | 206821 |
| 6 dB (4:1) Tapper     | VEN-06TAP-360-4F                    | 283856        | VEN-06TAP-360-NF                    | 244607 |
| 8 dB (6:1) Tapper     | VEN-08TAP-360-4F                    | 285171        | VEN-08TAP-360-NF                    | 234082 |
| 10 dB (10:1) Tapper   | VEN-10TAP-360-4F                    | 255088        | VEN-10TAP-360-NF                    | 218285 |
| 13 dB (20:1) Tapper   | VEN-13TAP-360-4F                    | 263460        | VEN-13TAP-360-NF                    | 284226 |
| 15 dB (30:1) Tapper   | VEN-15TAP-360-4F                    | 228165        | VEN-15TAP-360-NF                    | 209113 |
| 20 dB (100:1) Tapper  | VEN-20TAP-360-4F                    | 290880        | VEN-20TAP-360-NF                    | 241614 |
| 30 dB (1000:1) Tapper | VEN-30TAP-360-4F                    | Contact Sales | VEN-30TAP-360-NF                    | 606931 |

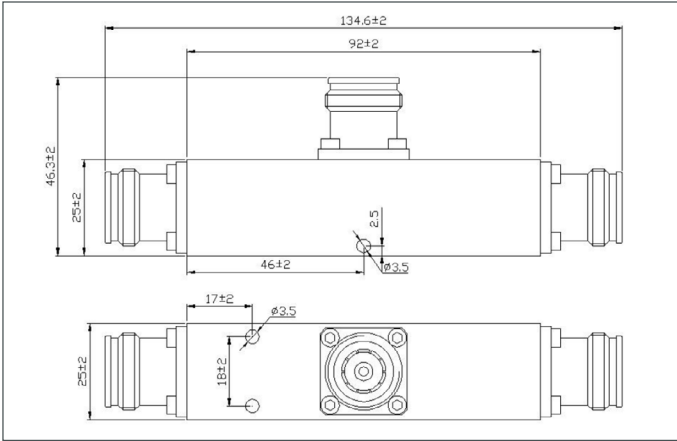
## Mechanical Specifications

|                |                  |
|----------------|------------------|
| Dimensions     | 3.63 x 1 x 1 in. |
| Product Weight | 0.66 lb.         |
| Body & Color   | Aluminum, Gray   |
| Mounting       | Bracket Included |

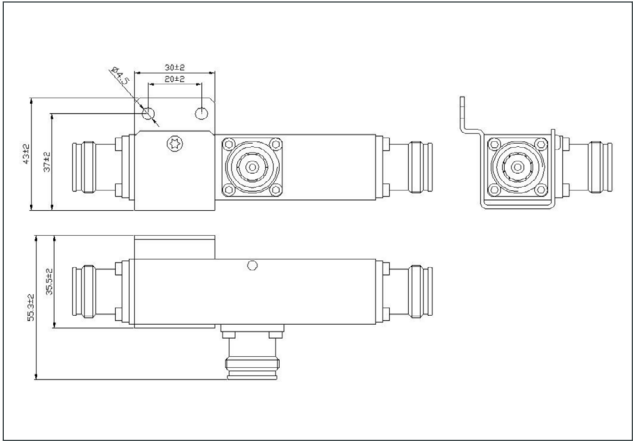
## Environmental Specifications

|                       |              |
|-----------------------|--------------|
| Ingress Protection    | IP67         |
| Operating Temperature | -40 to 185°F |
| Operating Humidity    | Up to 95%    |

## Tapper



## Tapper With Mounting Bracket



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