

## 10:1 Unequal Power Divider

### 5501.31.0010

#### Tapper

#### Description

This tapper unevenly splits high power cellular signals in the ratio 10:1 with minimal reflections or loss over the wireless bands in the range 350 - 2700 MHz, (no coupling 960 to 1710 MHz). The innovative asymmetric design ensures an excellent input VSWR and coupling flatness across the band.

The lightweight design allows easy attachment to a wall using the supplied bracket. Designed with only a few solder joints and an air dielectric, loss is minimized and reliability enhanced.

It supports public safety and cellular bands, as well as WiFi 2.4.



#### Technical Data

##### Electrical Data

|                                  | Band 1      | Band 2     | Band 3    |
|----------------------------------|-------------|------------|-----------|
| Frequency (GHz)                  | 0.35 - 0.96 | 1.71 - 1.8 | 1.8 - 2.7 |
| Return Loss (dB)                 | 20.8        | 17.6       | 20.8      |
| Tapp Loss (dB)                   | 10          | 10         | 10        |
| Tapp Loss flatness +/- (dB)      |             |            |           |
| Insertion Loss (dB)              | 0.4         | 0.4        | 0.4       |
| Max. Composite Power (W)         | 300         | 300        | 300       |
| Peak Envelope Power (W)          | 2000        | 2000       | 2000      |
| Intermodulation distortion (dBc) | -161        | -161       | -161      |
| @ 2 x Carrier Power (dBm)        | 43          | 43         | 43        |

|                  | Main Line In  | Main Line Out | Tap Port      |
|------------------|---------------|---------------|---------------|
| Port Designation | IN            | OUT           | 10 dB         |
| Connector Type   | 4.3-10        | 4.3-10        | 4.3-10        |
| Gender           | jack (female) | jack (female) | jack (female) |

Char. impedance 50 Ω

##### Mechanical Data

Dimensions 32 x 89 x 32 mm (Height x Width x Length)  
Weight 0.42 kg

##### Environmental Data

Environmental conditions indoor/outdoor  
Operation temperature -40 °C to 75 °C  
Storage temperature -40 °C to 75 °C  
Transport temperature -40 °C to 75 °C  
IP rating IP67  
2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant

##### Material Data

Housing Material Aluminium  
Surface treatment Black paint

##### Related Documents

Outline drawing DOU-00374772

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