DAS High Power Tappers

Our iDAS Tappers receive and distribute high power, wireless signals in a fixed proportion throughout an iDAS network. With RF performance optimized for carrier signals in the 350–2700 MHz band, models offered include six fixed-ratio splits of 2:1 through 100:1. These tappers offer low VSWR (high return loss) at the input port. Tight machining tolerances in the internal air dielectric design allow a narrow flatness tolerance to the tap port. Materials and plating were carefully chosen to achieve minimal PIM. Our iDAS Tappers offer excellent signal and mechanical reliability indoors or out - meeting IP67 specifications. Units are available with N-type, 7/16 DIN, and 4.3-10 connectors.

Features & Benefits:
- 350-2700 MHz Band
- Split ratios from 2:1 to 100:1
- Low PIM tested and verified
- 500 Watt Average Power Rating
- Minimal RF Insertion Loss
- High Environment Reliability; IP67
- ROHS Compliant

Specifications

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Part Number - By Connector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>N Connector</td>
<td>HPT20-N-35027 HPT3-N-35027 HPT48-N-35027 HPT6-N-35027 HPT8-N-35027 HPT10-N-35027</td>
</tr>
<tr>
<td>7/16 DIN Connector</td>
<td>HPT20-D-35027 HPT3-D-35027 HPT48-D-35027 HPT6-D-35027 HPT8-D-35027 HPT10-D-35027</td>
</tr>
<tr>
<td>4.3-10 Connector</td>
<td>HPT20-B-35027 HPT3-B-35027 HPT48-B-35027 HPT6-B-35027 HPT8-B-35027 HPT10-B-35027</td>
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Output Split Ratio, Nominal

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<tbody>
<tr>
<td>Outputs Ref. to Input Level, Including Loss (dB):</td>
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<tr>
<td>Main/Branch (dB)</td>
<td>-0.1/-20.1</td>
<td>-1.8/-4.8</td>
<td>-1.3/-6.1</td>
<td>-1.0/-7.0</td>
<td>-0.7/-8.6</td>
<td>-0.4/-10.4</td>
</tr>
<tr>
<td>Branch Flatness</td>
<td>± 1.00</td>
<td>+0.5/-0.8†</td>
<td>± 0.7†</td>
<td>± 0.7†</td>
<td>± 0.8†</td>
<td>± 1.0</td>
</tr>
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</table>

Input VSWR Maximum:
- 700-2500 MHz: 1.25:1, 1.3:1, 1.3:1, 1.2:1, 1.2:1, 1.2:1
- 350-2700 MHz: 1.25:1, 1.4:1, 1.3:1, 1.3:1, 1.2:1, 1.2:1

Frequency Bands:
- 350 - 960 MHz and 1,710 - 2,700 MHz; Uncoupled: 1550-1650 MHz

Dissipative Loss:
- 0.1 dB max. (main line)

Power Rating:
- 500W avg., 3 kW peak

Impedance:
- 50Ω nominal

PIM 2 tone test at +43 dBm:
- N & 7/16 DIN Connectors: <=-153 dBc; 4.3-10 Connectors: <=-161 dBc

Environment:
- IP67

Temperature Range:
- -35°C to +75°C

Connectors: Body/Finish
- Brass/Trimetal

Housing Finish:
- Passivated Aluminum

Weight ~ Lbs. / Kg:
- .875 / .380

Mounting:
- Bracket supplied

†MHz Branch Flatness In range 350-380 is ±1.0