DY series consists of isolated and constant-voltage products. They are characterized by small size, high efficiency, high isolated voltage, high reliability and low price. This series of products are applicable to the digital signal processing circuit as well as the analog circuit with low requirement over voltage stability, particularly suitable to the distributed power generating system and the circuit with lower power supply. Those circuits with high demand in respects of voltage stability and ripple noise should employ WDY series of products.

Product selection table

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>input voltage</th>
<th>output voltage</th>
<th>output power</th>
<th>package</th>
</tr>
</thead>
<tbody>
<tr>
<td>DYXXXSSX-3W</td>
<td>5,9,12,15,24</td>
<td>3.5,5,9,12,15,30</td>
<td>3</td>
<td>SIP8</td>
</tr>
</tbody>
</table>

Common traits

Dielectric strength: 1000VDC
Dielectric resistance: 1000MΩ minimum
Operation temperature: −30°C~+65°C
Storage temperature: −40°C~+95°C
Operation humidity: ≤95%
Storage humidity: ≤95%
Unloaded power consumption: 20mW~80mW
Cooling method: naturally air-cooled
Mean Time Between Failures (MTBF): >1 million hours
Shell material: Heat and flame resistant plastic
Operating frequency: 130KHz±20%
Temperature rise during working hours: 20°C Max, typically 10°C

Input traits

Type of input voltage: 3.3V, 5V, 12V, 15V, 24VDC
Acceptable range of input voltage: Vin±10%
The largest input voltage: Vin+25%

Output traits

Full-load output power: 0.1W, 0.25W, 0.5W, 0.75W, 1W
Type of output voltage: 3.3V, 5V, 9V, 12V, 15V, 18V, 24V, 30VDC SIP7
Linear voltage regulation: 1.2
Load regulation: 12% max
Temperature drift coefficient: typically 0.02%/°C
Ripple and noise (20MHz bandwidth): 20mV~80mVp-pmax
Full-load efficiency, 3.3V, 5V Output: typically 75%, 70% minimum
Full-load efficiency, 9V, 12V, 15V Output: 80% typically, 75% minimum

Outline dimension and pin-out diagram (Dimension unit: mm, inch)

Note: The products are measured by the mm; the distance between any two pin-out is 2.54 mm; the width of a pin-out is 0.50 mm.

SHENZHEN YAOHUA POWER TECHNOLOGY CO., LTD
http://www.yaohuapower.com