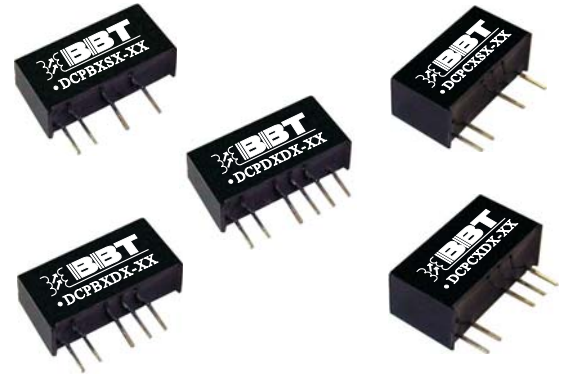


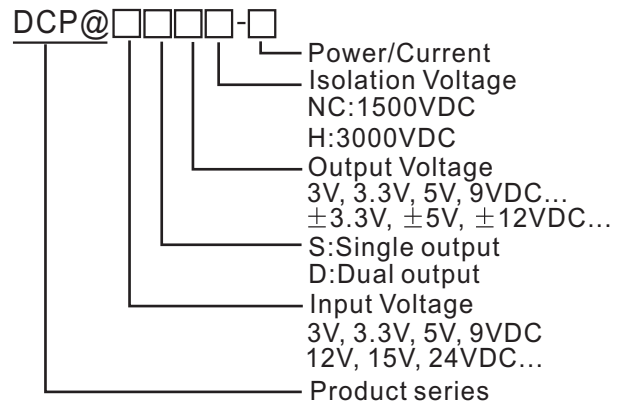
# Fix input & Unregulated single/dual 0.5~ 1W Ultra-Mini DC/DC

## ★Specifications (25°C)

|                         |   |
|-------------------------|---|
| Input Voltage           | Vin: 3,3.3,5,9,12,15,24VDC...                           |
| Input Voltage range     | Vin ±10%  |
| Output Voltage          | 3,3.3,5,9,12,15,24VDC...<br>±3,±3.3,±5,±9,±12,±15VDC... |
| Output Voltage Accuracy | Vout ±5%  |
| Line Regulation         | 1.25% (1% change of Vin)                                |
| Load Regulation         | 8% (Io=20% to 80%)                                      |
| Ripple & Noise          | 10-100mVp-p (20MHz)                                     |
| Temperature coefficient | ±0.02%/1°C  |
| Isolation Voltage Rated | 1500;3000VDC (60ms/0.5mA)                               |
| Isolation Resistance    | Min:10GΩ (500VDC)                                       |
| Isolation Capacitance   | 60-110pF  |
| Switching Frequency     | 70-120KHz   |
| MTBF                    | Up to 1.0 Million Hours(25                              |
| Operating Temperature   | -40~85°C  |
| Storage Temperature     | -40~125°C   |
| Humidity                | 95%(Max)  |
| Cooling                 | Free-Air Convection                                     |
| Package                 | Sip4:20.4X7.7X10.2mm                                    |
| Weight                  | 4.3g  |
| Case Material           | Non-Conductive Black Plastic                            |



## ★Model Select Guide



@ : B, C, D, S, T, U

DCP@: DCPB, DCPC, DCPD  
DCPS, DCPT, DCPU

Other specifications please enquire

## ★Product Program

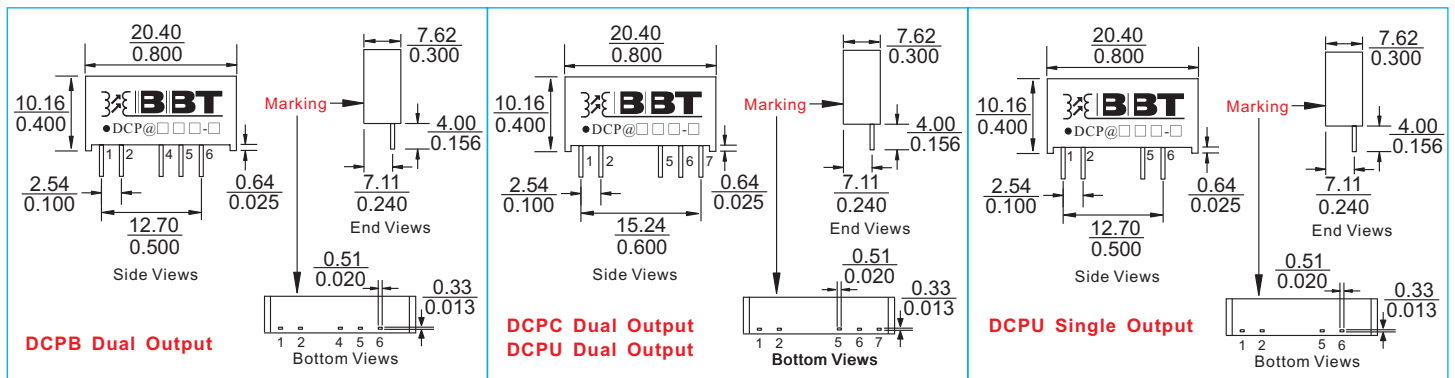
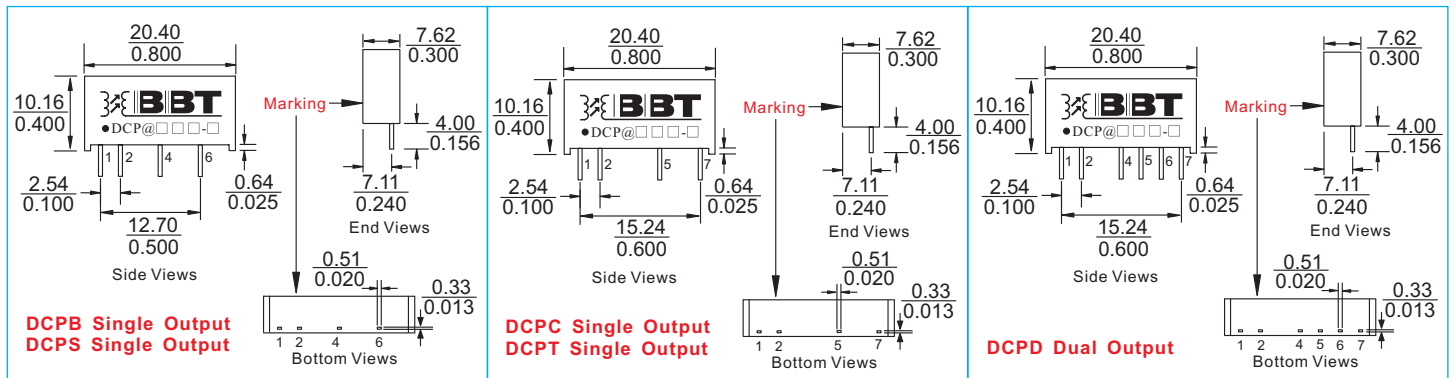
| Part Number   | Input(V)<br>Vin±10% | Output |        |       |        | Isolation<br>VDC | Efficiency<br>%(MIN) |
|---------------|---------------------|--------|--------|-------|--------|------------------|----------------------|
|               |                     | +V(V)  | +I(mA) | -V(V) | -I(mA) |                  |                      |
| DCP@5S3.3-1W  | 5<br>4.5~5.5        | 3.3    | 300    |       |        | 1500             | 75                   |
| DCP@5S5-1W    |                     | 5      | 200    |       |        | 1500             | 76                   |
| DCP@5S9-1W    |                     | 9      | 112    |       |        | 1500             | 76                   |
| DCP@5S12-1W   |                     | 12     | 84     |       |        | 1500             | 76                   |
| DCP@5S15-1W   |                     | 15     | 67     |       |        | 1500             | 75                   |
| DCP@5D3.3-1W  | 5<br>4.5~5.5        | 3.3    | 152    | -3.3  | -152   | 1500             | 75                   |
| DCP@5D5-1W    |                     | 5      | 100    | -5    | -100   | 1500             | 76                   |
| DCP@5D9-1W    |                     | 9      | 56     | -9    | -56    | 1500             | 76                   |
| DCP@5D12-1W   |                     | 12     | 42     | -12   | -42    | 1500             | 76                   |
| DCP@5D15-1W   |                     | 15     | 34     | -15   | -34    | 1500             | 75                   |
| DCP@12S3.3-1W | 12<br>10.8~13.2     | 3.3    | 300    |       |        | 1500             | 75                   |
| DCP@12S5-1W   |                     | 5      | 200    |       |        | 1500             | 76                   |
| DCP@12S9-1W   |                     | 9      | 112    |       |        | 1500             | 76                   |
| DCP@12S12-1W  |                     | 12     | 84     |       |        | 1500             | 76                   |
| DCP@12S15-1W  |                     | 15     | 67     |       |        | 1500             | 75                   |
| DCP@12D3.3-1W | 12<br>10.8~13.2     | 3.3    | 152    | -3.3  | -152   | 1500             | 75                   |
| DCP@12D5-1W   |                     | 5      | 100    | -5    | -100   | 1500             | 76                   |
| DCP@12D9-1W   |                     | 9      | 56     | -9    | -56    | 1500             | 76                   |
| DCP@12D12-1W  |                     | 12     | 42     | -12   | -42    | 1500             | 76                   |
| DCP@12D15-1W  |                     | 15     | 34     | -15   | -34    | 1500             | 75                   |
| DCP@24S3.3-1W | 24<br>21.6~26.4     | 3.3    | 300    |       |        | 1500             | 75                   |
| DCP@24S5-1W   |                     | 5      | 200    |       |        | 1500             | 76                   |
| DCP@24S9-1W   |                     | 9      | 112    |       |        | 1500             | 76                   |
| DCP@24S12-1W  |                     | 12     | 84     |       |        | 1500             | 76                   |
| DCP@24S15-1W  |                     | 15     | 67     |       |        | 1500             | 75                   |
| DCP@24D3.3-1W | 24<br>21.6~26.4     | 3.3    | 152    | -3.3  | -152   | 1500             | 75                   |
| DCP@24D5-1W   |                     | 5      | 100    | -5    | -100   | 1500             | 76                   |
| DCP@24D9-1W   |                     | 9      | 56     | -9    | -56    | 1500             | 76                   |
| DCP@24D12-1W  |                     | 12     | 42     | -12   | -42    | 1500             | 76                   |
| DCP@24D15-1W  |                     | 15     | 34     | -15   | -34    | 1500             | 75                   |

| Part Number   | Input(V)<br>Vin±10% | Output |        |       |        | Isolation<br>VDC | Efficiency<br>%(MIN) |
|---------------|---------------------|--------|--------|-------|--------|------------------|----------------------|
|               |                     | +V(V)  | +I(mA) | -V(V) | -I(mA) |                  |                      |
| DCP@5S3.3-1W  | 5<br>4.5~5.5        | 3.3    | 300    |       |        | 3000             | 75                   |
| DCP@5S5-1W    |                     | 5      | 200    |       |        | 3000             | 76                   |
| DCP@5S9-1W    |                     | 9      | 112    |       |        | 3000             | 76                   |
| DCP@5S12-1W   |                     | 12     | 84     |       |        | 3000             | 76                   |
| DCP@5S15-1W   |                     | 15     | 67     |       |        | 3000             | 75                   |
| DCP@5D3.3-1W  | 5<br>4.5~5.5        | 3.3    | 152    | -3.3  | -152   | 3000             | 75                   |
| DCP@5D5-1W    |                     | 5      | 100    | -5    | -100   | 3000             | 76                   |
| DCP@5D9-1W    |                     | 9      | 56     | -9    | -56    | 3000             | 76                   |
| DCP@5D12-1W   |                     | 12     | 42     | -12   | -42    | 3000             | 76                   |
| DCP@5D15-1W   |                     | 15     | 34     | -15   | -34    | 3000             | 75                   |
| DCP@12S3.3-1W | 12<br>10.8~13.2     | 3.3    | 300    |       |        | 3000             | 75                   |
| DCP@12S5-1W   |                     | 5      | 200    |       |        | 3000             | 76                   |
| DCP@12S9-1W   |                     | 9      | 112    |       |        | 3000             | 76                   |
| DCP@12S12-1W  |                     | 12     | 84     |       |        | 3000             | 76                   |
| DCP@12S15-1W  |                     | 15     | 67     |       |        | 3000             | 75                   |
| DCP@12D3.3-1W | 12<br>10.8~13.2     | 3.3    | 152    | -3.3  | -152   | 3000             | 75                   |
| DCP@12D5-1W   |                     | 5      | 100    | -5    | -100   | 3000             | 76                   |
| DCP@12D9-1W   |                     | 9      | 56     | -9    | -56    | 3000             | 76                   |
| DCP@12D12-1W  |                     | 12     | 42     | -12   | -42    | 3000             | 76                   |
| DCP@12D15-1W  |                     | 15     | 34     | -15   | -34    | 3000             | 75                   |
| DCP@24S3.3-1W | 24<br>21.6~26.4     | 3.3    | 300    |       |        | 3000             | 75                   |
| DCP@24S5-1W   |                     | 5      | 200    |       |        | 3000             | 76                   |
| DCP@24S9-1W   |                     | 9      | 112    |       |        | 3000             | 76                   |
| DCP@24S12-1W  |                     | 12     | 84     |       |        | 3000             | 76                   |
| DCP@24S15-1W  |                     | 15     | 67     |       |        | 3000             | 75                   |
| DCP@24D3.3-1W | 24<br>21.6~26.4     | 3.3    | 152    | -3.3  | -152   | 3000             | 75                   |
| DCP@24D5-1W   |                     | 5      | 100    | -5    | -100   | 3000             | 76                   |
| DCP@24D9-1W   |                     | 9      | 56     | -9    | -56    | 3000             | 76                   |
| DCP@24D12-1W  |                     | 12     | 42     | -12   | -42    | 3000             | 76                   |
| DCP@24D15-1W  |                     | 15     | 34     | -15   | -34    | 3000             | 75                   |

★Pin Define

| PIN | DCPB   |       | DCPC   |       | DCPU   |       | DCPS   | DCPT   | DCPD |
|-----|--------|-------|--------|-------|--------|-------|--------|--------|------|
|     | Single | Dual  | Single | Dual  | Single | Dual  | Single | Single | Dual |
| 1   | Vin+   | Vin+  | Vin+   | Vin+  | Vin+   | Vin+  | Vin+   | Vin+   | Vin+ |
| 2   | Vin-   | Vin-  | Vin-   | Vin-  | Vin-   | Vin-  | Vin-   | Vin-   | Vin- |
| 3   | NC     | NC    | NC     | NC    | NC     | NC    | NC     | NC     | NC   |
| 4   | 0V     | Vout- | NC     | NC    | NC     | NC    | Vout+  | NC     | V1-  |
| 5   | NC     | 0V    | 0V     | Vout- | Vout-  | 0V    | NC     | Vout+  | V1+  |
| 6   | Vout+  | Vout+ | NC     | 0V    | Vout+  | Vout+ | 0V     | NC     | V2-  |
| 7   | NC     | NC    | Vout+  | Vout+ | NC     | Vout- | NC     | 0V     | V2+  |

★Dimensions: (mm)  
inch



★Derating Curve

