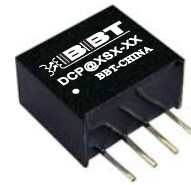


# Fix input & Unregulated single Output 0.1~0.5W Ultra-Mini DC/DC

## ★Specifications (25°C)

|                         |                              |
|-------------------------|------------------------------|
| Input Voltage           | Vin: 3,3.3,5,9,12,15,24VDC   |
| Input Voltage range     | Vin ±10%                     |
| Output Voltage          | Vout:3,3.3,5,9,12,15,24VDC   |
| 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 | 1000VDC (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                 | Sip4:11.7X6.1X10.2mm         |
| Weight                  | 2.1g                         |
| Case Material           | Non-Conductive Black Plastic |

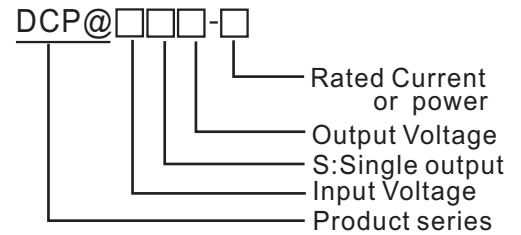


DCPA, DCPE  
DCPF, DCPH



DCPG, DCPY  
DCPR, DCPZ

## ★Model Select Guide



@ : A, E, F, H, G, Y, R, Z

DCP@: DCPA, DCPE, DCPF, DCPH  
DCPG, DCPY, DCPR, DCPZ

※: **General** DCPA  
DCPE  
DCPG

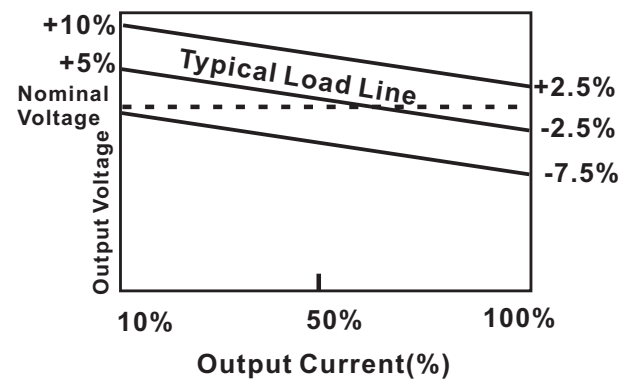
Other specifications please enquire

## ★Product Program

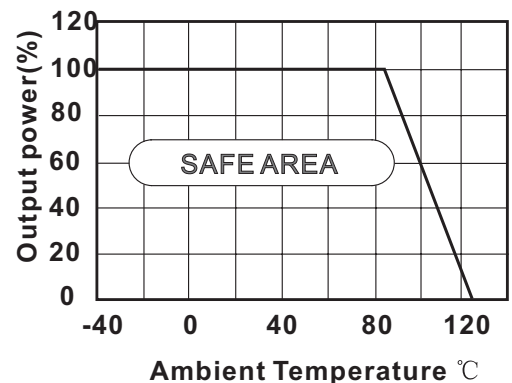
| Part Number    | Input(V)<br>Vin±10% | Output  |           | Efficiency<br>%(MIN) |
|----------------|---------------------|---------|-----------|----------------------|
|                |                     | Vout(V) | Iout(Max) |                      |
| DCP@3.3S3-W5   | 3.3<br>2.97~3.63    | 3       | 167       | 72                   |
| DCP@3.3S3.3-W5 |                     | 3.3     | 152       | 72                   |
| DCP@3.3S5-W5   |                     | 5       | 100       | 73                   |
| DCP@3.3S9-W5   |                     | 9       | 56        | 73                   |
| DCP@3.3S12-W5  |                     | 12      | 42        | 74                   |
| DCP@3.3S15-W5  |                     | 15      | 33        | 75                   |
| DCP@5S3-W5     | 5<br>4.5~5.5        | 3       | 167       | 72                   |
| DCP@5S3.3-W5   |                     | 3.3     | 152       | 72                   |
| DCP@5S5-W5     |                     | 5       | 100       | 73                   |
| DCP@5S9-W5     |                     | 9       | 56        | 73                   |
| DCP@5S12-W5    |                     | 12      | 42        | 74                   |
| DCP@5S15-W5    |                     | 15      | 33        | 75                   |
| DCP@12S3-W5    | 12<br>10.8~13.2     | 3       | 167       | 72                   |
| DCP@12S3.3-W5  |                     | 3.3     | 152       | 72                   |
| DCP@12S5-W5    |                     | 5       | 100       | 73                   |
| DCP@12S9-W5    |                     | 9       | 56        | 73                   |
| DCP@12S12-W5   |                     | 12      | 42        | 74                   |
| DCP@12S15-W5   |                     | 15      | 33        | 75                   |
| DCP@15S3-W5    | 15<br>13.5~16.5     | 3       | 167       | 72                   |
| DCP@15S3.3-W5  |                     | 3.3     | 152       | 72                   |
| DCP@15S5-W5    |                     | 5       | 100       | 73                   |
| DCP@15S9-W5    |                     | 9       | 56        | 73                   |
| DCP@15S12-W5   |                     | 12      | 42        | 74                   |
| DCP@15S15-W5   |                     | 15      | 33        | 75                   |
| DCP@24S3-W5    | 24<br>21.6~26.4     | 3       | 167       | 72                   |
| DCP@24S3.3-W5  |                     | 3.3     | 152       | 72                   |
| DCP@24S5-W5    |                     | 5       | 100       | 73                   |
| DCP@24S9-W5    |                     | 9       | 56        | 73                   |
| DCP@24S12-W5   |                     | 12      | 42        | 74                   |
| DCP@24S15-W5   |                     | 15      | 33        | 75                   |

## ★Derating Curve

Tolerance Envelope Graph



Temperature Derating Graph

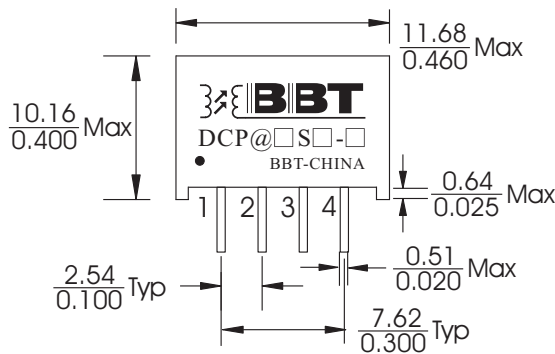


★Pin Define:

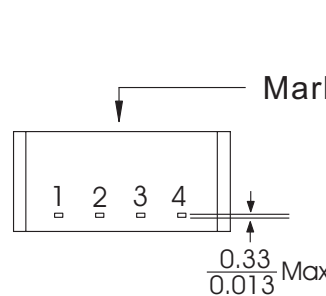
| PIN | DCPA  | DCPF  | DCPE  | DCPH  | DCPG  | DCPY  | DCPR  | DCPZ  |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 1   | -Vin  | -Vin  | +Vin  | +Vin  | -Vin  | -Vin  | +Vin  | +Vin  |
| 2   | +Vin  | +Vin  | -Vin  | -Vin  | +Vin  | +Vin  | -Vin  | -Vin  |
| 3   | -Vout | +Vout | -Vout | +Vout | -Vout | +Vout | -Vout | +Vout |
| 4   | +Vout | -Vout | +Vout | -Vout | +Vout | -Vout | +Vout | -Vout |

★Dimensions: (mm)  
(Inch)

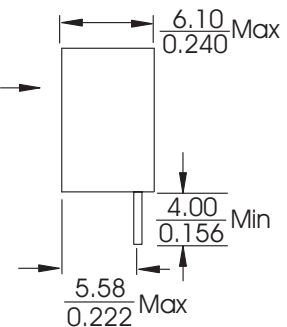
DCPA, DCPE, DCPF, DCPH Series



Side Views

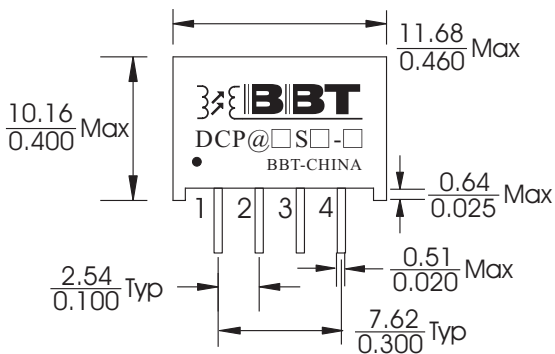


Bottom Views

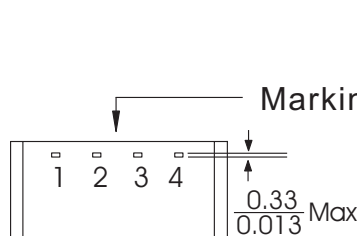


End Views

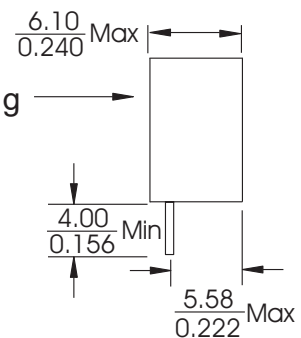
DCPG, DCPY, DCPR, DCPZ Series



Side Views



Bottom Views



End Views

★Application

| Vin  | Cin   | Vout | Cout  |
|------|-------|------|-------|
| 3.3V | 4.7uF | 5V   | 10uF  |
| 5V   | 3.3uF | 9V   | 4.7uF |
| 12V  | 2.2uF | 12V  | 2.2uF |
| 24V  | 1uF   | 24V  | 1uF   |

