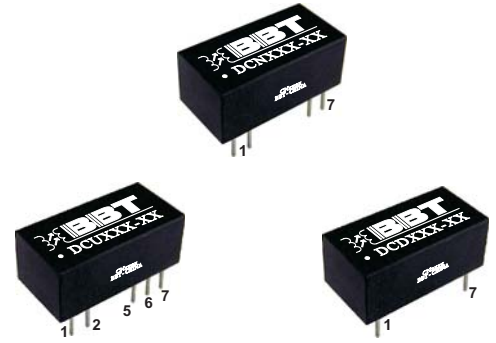


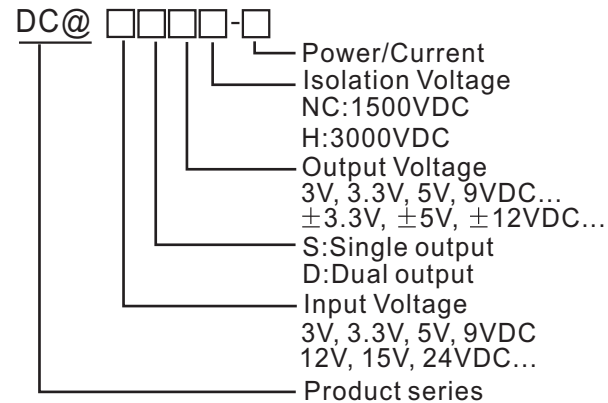
Fix input & Unregulated single/dual 0.1~0.5W Ultra-Mini DC/DC

★Specifications (25°C)

Input Voltage	Vin: 3,3.3,5,9,12,15,24VDC...
Input Voltage range	Vin ±10%
Output Voltage	3,3.3,5,9,12,15,24VDC... ±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



@ : U, D, N, NB, NC, ND, NE

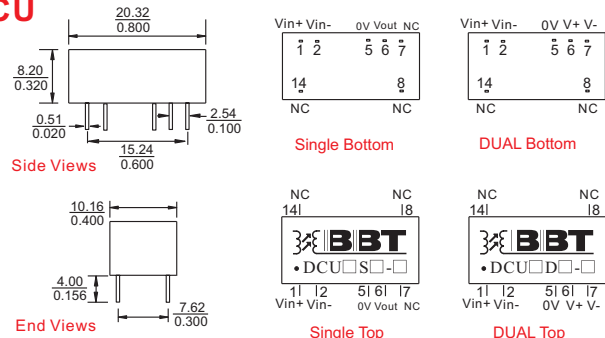
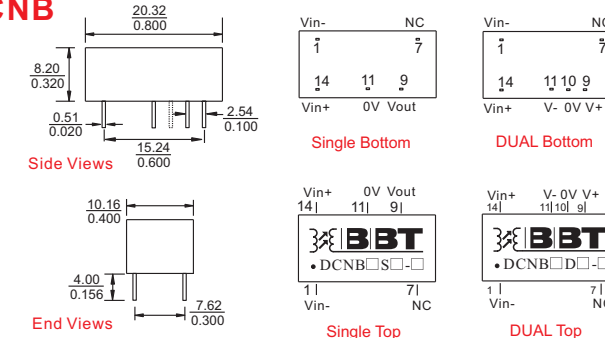
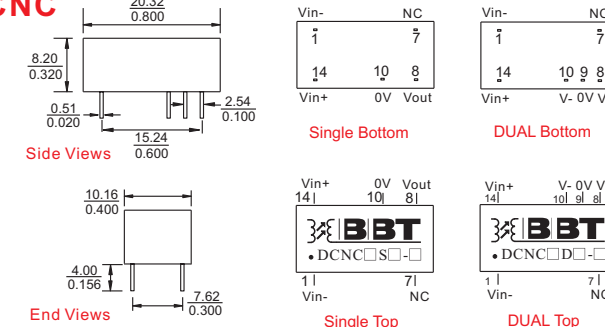
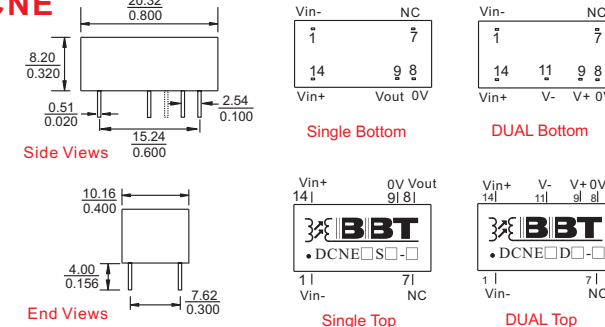
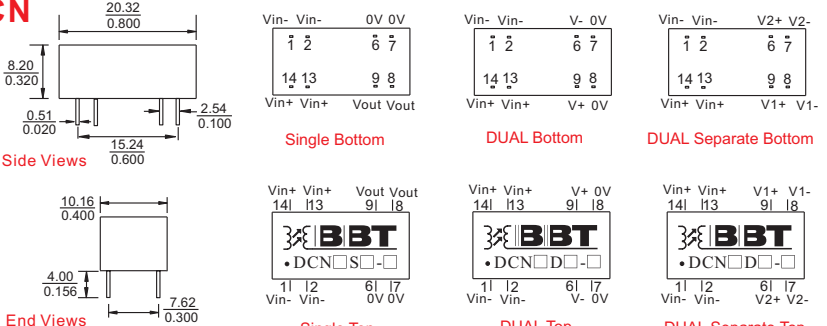
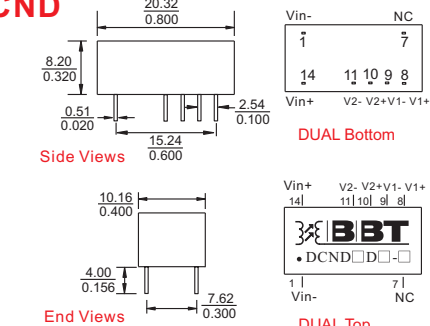
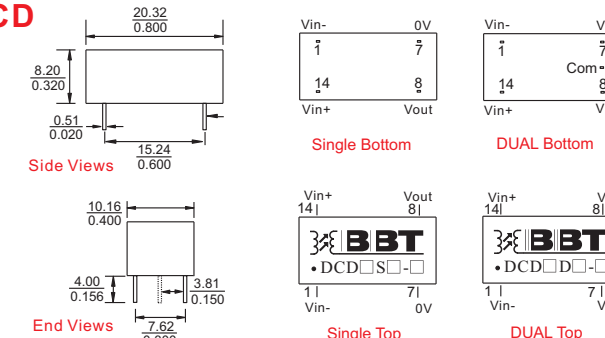
DC@: DCU, DCD, DCN
DCNB, DCNC, DCND, DCNE

Other specifications please enquire

★Product Program

Part Number	Input(V) Vin±10%	Output				Isolation VDC	Efficiency %(MIN)	Part Number	Input(V) Vin±10%	Output				Isolation VDC	Efficiency %(MIN)
		+V(V)	+I(mA)	-V(V)	-I(mA)					+V(V)	+I(mA)	-V(V)	-I(mA)		
DC@5S3.3-W5	5 4.5~5.5	3.3	152			1500	75	DC@5S3.3H-W5	5 4.5~5.5	3.3	152			3000	75
DC@5S5-W5		5	100			1500	76	DC@5S5H-W5		5	100			3000	76
DC@5S9-W5		9	56			1500	76	DC@5S9H-W5		9	56			3000	76
DC@5S12-W5		12	42			1500	76	DC@5S12H-W5		12	42			3000	76
DC@5S15-W5		15	33			1500	75	DC@5S15H-W5		15	33			3000	75
DC@5D3.3-W5	5 4.5~5.5	3.3	76	-3.3	-76	1500	75	DC@5D3.3H-W5	5 4.5~5.5	3.3	76	-3.3	-76	3000	75
DC@5D5-W5		5	50	-5	-50	1500	76	DC@5D5H-W5		5	50	-5	-50	3000	76
DC@5D9-W5		9	28	-9	-28	1500	76	DC@5D9H-W5		9	28	-9	-28	3000	76
DC@5D12-W5		12	21	-12	-21	1500	76	DC@5D12H-W5		12	21	-12	-21	3000	76
DC@5D15-W5		15	17	-15	-17	1500	75	DC@5D15H-W5		15	17	-15	-17	3000	75
DC@12S3.3-W5	12 10.8~13.2	3.3	152			1500	75	DC@12S3.3H-W5	12 10.8~13.2	3.3	152			3000	75
DC@12S5-W5		5	100			1500	76	DC@12S5H-W5		5	100			3000	76
DC@12S9-W5		9	56			1500	76	DC@12S9H-W5		9	56			3000	76
DC@12S12-W5		12	42			1500	76	DC@12S12H-W5		12	42			3000	76
DC@12S15-W5		15	33			1500	75	DC@12S15H-W5		15	33			3000	75
DC@12D3.3-W5	12 10.8~13.2	3.3	76	-3.3	-76	1500	75	DC@12D3.3H-W5	12 10.8~13.2	3.3	76	-3.3	-76	3000	75
DC@12D5-W5		5	50	-5	-50	1500	76	DC@12D5H-W5		5	50	-5	-50	3000	76
DC@12D9-W5		9	28	-9	-28	1500	76	DC@12D9H-W5		9	28	-9	-28	3000	76
DC@12D12-W5		12	21	-12	-21	1500	76	DC@12D12H-W5		12	21	-12	-21	3000	76
DC@12D15-W5		15	17	-15	-17	1500	75	DC@12D15H-W5		15	17	-15	-17	3000	75
DC@24S3.3-W5	24 21.6~26.4	3.3	152			1500	75	DC@24S3.3H-W5	24 21.6~26.4	3.3	152			3000	75
DC@24S5-W5		5	100			1500	76	DC@24S5H-W5		5	100			3000	76
DC@24S9-W5		9	56			1500	76	DC@24S9H-W5		9	56			3000	76
DC@24S12-W5		12	42			1500	76	DC@24S12H-W5		12	42			3000	76
DC@24S15-W5		15	33			1500	75	DC@24S15H-W5		15	33			3000	75
DC@24D3.3-W5	24 21.6~26.4	3.3	76	-3.3	-76	1500	75	DC@24D3.3H-W5	24 21.6~26.4	3.3	76	-3.3	-76	3000	75
DC@24D5-W5		5	50	-5	-50	1500	76	DC@24D5H-W5		5	50	-5	-50	3000	76
DC@24D9-W5		9	28	-9	-28	1500	76	DC@24D9H-W5		9	28	-9	-28	3000	76
DC@24D12-W5		12	21	-12	-21	1500	76	DC@24D12H-W5		12	21	-12	-21	3000	76
DC@24D15-W5		15	17	-15	-17	1500	75	DC@24D15H-W5		15	17	-15	-17	3000	75

★Dimensions:($\frac{mm}{inch}$) & Pin Define

<p>DCU</p>  <p>Side Views: 20.32 (0.800), 8.20 (0.320), 0.51 (0.020), 15.24 (0.600), 2.54 (0.100)</p> <p>End Views: 10.16 (0.400), 4.00 (0.156), 7.62 (0.300)</p> <p>Single Bottom: Vin+ Vin- 0V Vout NC</p> <p>DUAL Bottom: Vin+ Vin- 0V V+ V-</p> <p>Single Top: BBT DCU □ S □ - □</p> <p>DUAL Top: BBT DCU □ D □ - □</p>	<p>DCNB</p>  <p>Side Views: 20.32 (0.800), 8.20 (0.320), 0.51 (0.020), 15.24 (0.600), 2.54 (0.100)</p> <p>End Views: 10.16 (0.400), 4.00 (0.156), 7.62 (0.300)</p> <p>Single Bottom: Vin- NC</p> <p>DUAL Bottom: Vin- NC</p> <p>Single Top: BBT DCNB □ S □ - □</p> <p>DUAL Top: BBT DCNB □ D □ - □</p>
<p>DCNC</p>  <p>Side Views: 20.32 (0.800), 8.20 (0.320), 0.51 (0.020), 15.24 (0.600), 2.54 (0.100)</p> <p>End Views: 10.16 (0.400), 4.00 (0.156), 7.62 (0.300)</p> <p>Single Bottom: Vin- NC</p> <p>DUAL Bottom: Vin- NC</p> <p>Single Top: BBT DCNC □ S □ - □</p> <p>DUAL Top: BBT DCNC □ D □ - □</p>	<p>DCNE</p>  <p>Side Views: 20.32 (0.800), 8.20 (0.320), 0.51 (0.020), 15.24 (0.600), 2.54 (0.100)</p> <p>End Views: 10.16 (0.400), 4.00 (0.156), 7.62 (0.300)</p> <p>Single Bottom: Vin- NC</p> <p>DUAL Bottom: Vin- NC</p> <p>Single Top: BBT DCNE □ S □ - □</p> <p>DUAL Top: BBT DCNE □ D □ - □</p>
<p>DCN</p>  <p>Side Views: 20.32 (0.800), 8.20 (0.320), 0.51 (0.020), 15.24 (0.600), 2.54 (0.100)</p> <p>End Views: 10.16 (0.400), 4.00 (0.156), 7.62 (0.300)</p> <p>Single Bottom: Vin- Vin- 0V 0V</p> <p>DUAL Bottom: Vin- Vin- V- 0V</p> <p>DUAL Separate Bottom: Vin- Vin- V2+ V2-</p> <p>Single Top: BBT DCN □ S □ - □</p> <p>DUAL Top: BBT DCN □ D □ - □</p> <p>DUAL Separate Top: BBT DCN □ D □ - □</p>	<p>DCND</p>  <p>Side Views: 20.32 (0.800), 8.20 (0.320), 0.51 (0.020), 15.24 (0.600), 2.54 (0.100)</p> <p>End Views: 10.16 (0.400), 4.00 (0.156), 7.62 (0.300)</p> <p>DUAL Bottom: Vin- NC</p> <p>DUAL Top: BBT DCND □ D □ - □</p>
<p>DCD</p>  <p>Side Views: 20.32 (0.800), 8.20 (0.320), 0.51 (0.020), 15.24 (0.600), 2.54 (0.100)</p> <p>End Views: 10.16 (0.400), 4.00 (0.156), 7.62 (0.300), 3.81 (0.150)</p> <p>Single Bottom: Vin- 0V</p> <p>DUAL Bottom: Vin- V-</p> <p>Single Top: BBT DCD □ S □ - □</p> <p>DUAL Top: BBT DCD □ D □ - □</p>	

★Derating Curve

