

Power Converters

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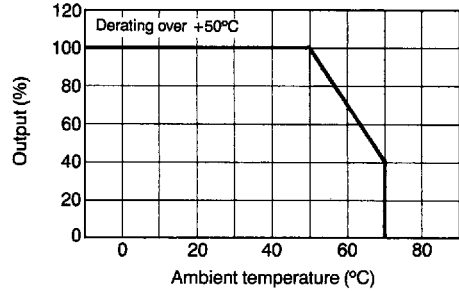
TEMPERATURE RANGE

(°C)

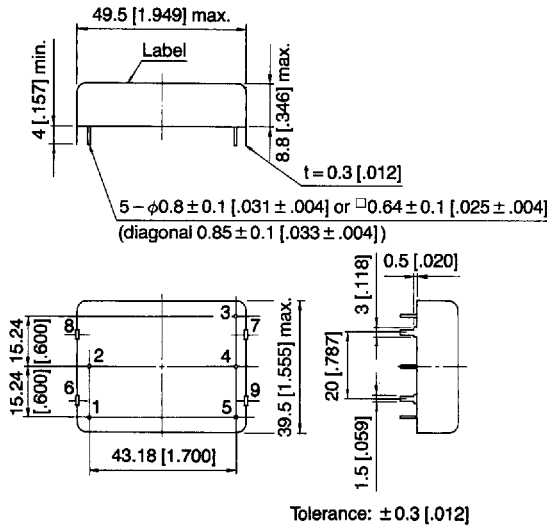
Series	Operating	Storage
CBN, CBK, CBM, CAP, CHG, CBG	- 10 to + 70	- 20 to + 85

• Humidity: 95% max. (maximum wet-bulb temperature: 38°C)

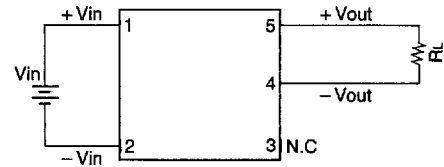
DERATING CURVE



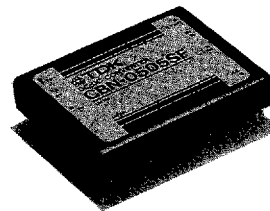
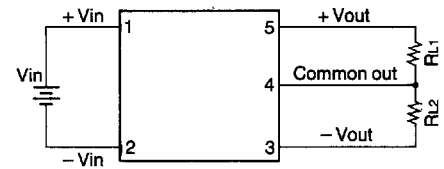
Series	Shapes and dimensions (mm) [inches]	Connections	Weight (g)	Fig.
CBN			30	8



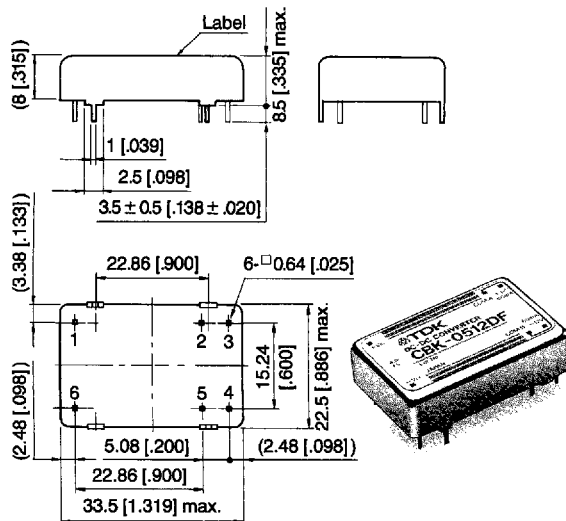
Single output type



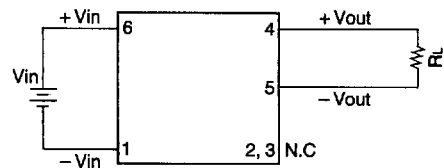
Dual output type



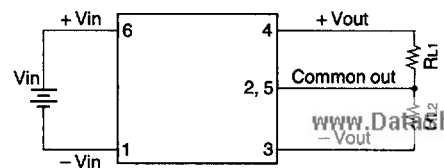
CBK



Single output type



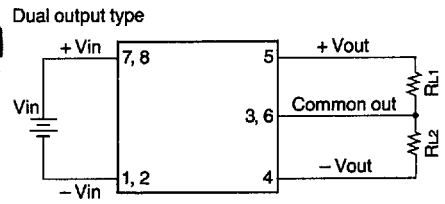
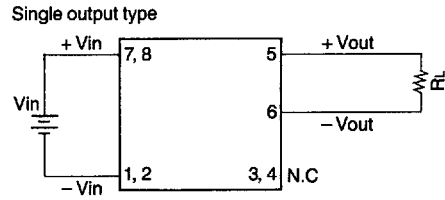
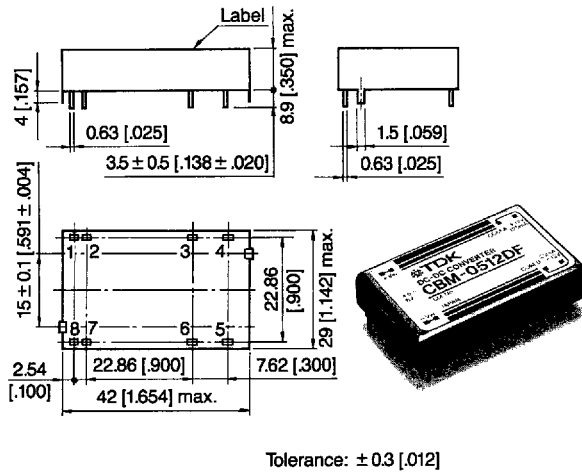
Dual output type



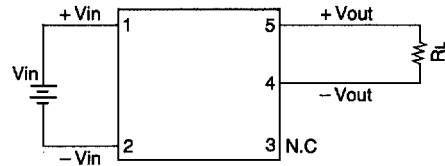
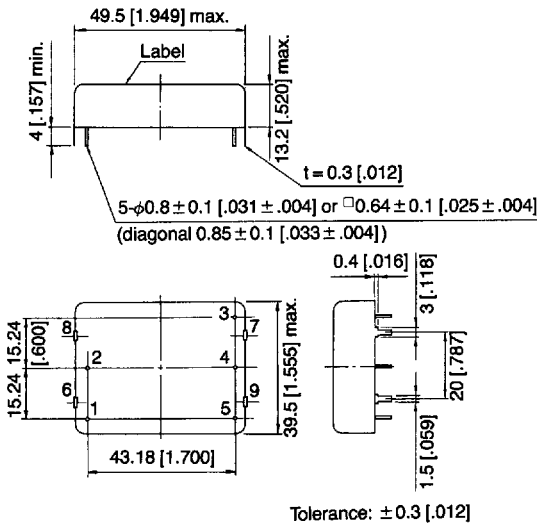
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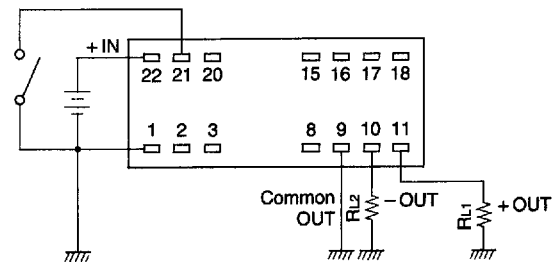
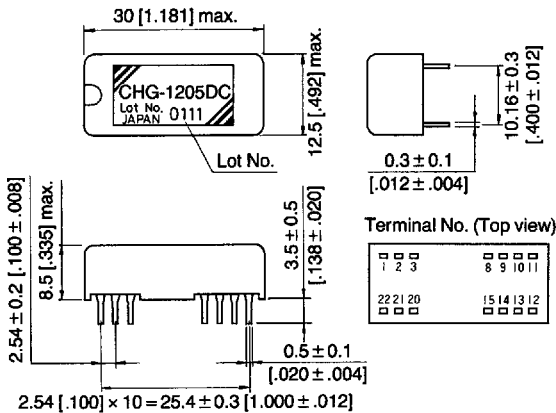
Series	Shapes and dimensions (mm) [inches]	Connections	Weight (g)	Fig.
CBM			20	10



CAP			42	11
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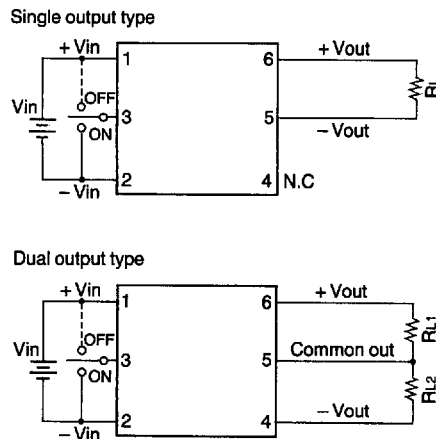
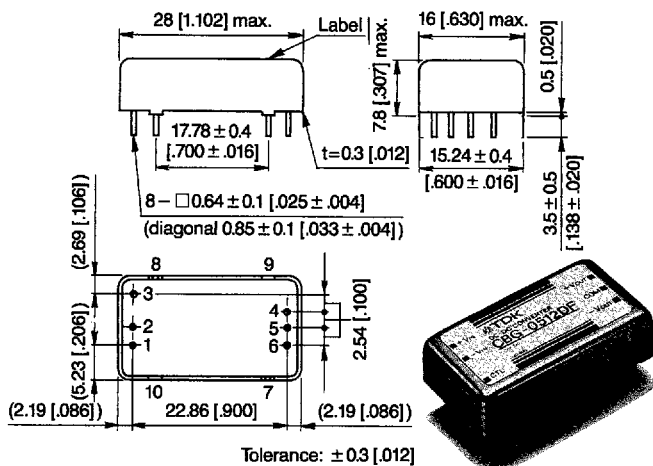
CHG			4	12
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Series	Shapes and dimensions (mm) [Inches]	Connections	Weight (g)	Fig.
CBG			8	13



Series	Maximum output power (W)	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Features	Fig.
CBN	5	4.5 to 6	$5 \pm 5\%$	0 to 1000	<ul style="list-style-type: none"> • Completely shielded package. • High output voltage stability. • Floating input and output. • External components are unnecessary. • Short circuit protection. 	8
			$12 \pm 5\%$	0 to 420		
			$15 \pm 5\%$	0 to 340		
			$\pm 12 \pm 5\%$	$(42 \text{ to } 210) \times 2$		
			$\pm 15 \pm 5\%$	$(34 \text{ to } 170) \times 2$		
CBK	1.5	4.5 to 6	$5 \pm 5\%$	0 to 250	<ul style="list-style-type: none"> • Completely shielded package. • High output voltage stability. • Floating input and output. • External components are unnecessary. • Short circuit protection. 	9
			$12 \pm 5\%$	0 to 125		
			$15 \pm 5\%$	0 to 100		
			$\pm 12 \pm 5\%$	$(12 \text{ to } 60) \times 2$		
			$\pm 15 \pm 5\%$	$(10 \text{ to } 50) \times 2$		
		10 to 16	$5 \pm 5\%$	0 to 300		
			$12 \pm 5\%$	0 to 125		
			$15 \pm 5\%$	0 to 100		
			$\pm 12 \pm 5\%$	$(12 \text{ to } 60) \times 2$		
			$\pm 15 \pm 5\%$	$(10 \text{ to } 50) \times 2$		
20 to 30	$5 \pm 5\%$	0 to 300				
	$12 \pm 5\%$	0 to 125				
	$15 \pm 5\%$	0 to 100				
	$\pm 12 \pm 5\%$	$(12 \text{ to } 60) \times 2$				
	$\pm 15 \pm 5\%$	$(10 \text{ to } 50) \times 2$				

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Series	Maximum output power (W)	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Features	Fig.
CBM	3	4.5 to 6	5 ± 5%	0 to 600	<ul style="list-style-type: none"> • Completely shielded package. • High output voltage stability. • Floating input and output. • External components are unnecessary. • Short circuit protection. 	10
			12 ± 5%	0 to 250		
			15 ± 5%	0 to 200		
			± 12 ± 5%	(25 to 125) × 2		
			± 15 ± 5%	(25 to 100) × 2		
		10 to 16	5 ± 5%	0 to 600		
			12 ± 5%	0 to 250		
			15 ± 5%	0 to 200		
			± 12 ± 5%	(25 to 125) × 2		
			± 15 ± 5%	(20 to 100) × 2		
		20 to 30	5 ± 5%	0 to 600		
			12 ± 5%	0 to 250		
			15 ± 5%	0 to 200		
			± 12 ± 5%	(25 to 125) × 2		
			± 15 ± 5%	(20 to 100) × 2		
36 to 56	5 ± 5%	0 to 600				
	12 ± 5%	0 to 250				
	15 ± 5%	0 to 200				
	± 12 ± 5%	(25 to 125) × 2				
	± 15 ± 5%	(20 to 100) × 2				
CAP	8 to 10	18 to 28	5 ± 5%	0 to 1600	<ul style="list-style-type: none"> • Completely shielded package. • High output voltage stability. • Floating input and output. • External components are unnecessary. • Short circuit protection. 	11
			12 ± 5%	0 to 800		
		36 to 56	5 ± 5%	0 to 1600		
			12 ± 5%	0 to 800		
CHG	0.8	4.5 to 9 7 to 16	5 ± 5%	16 to 160	<ul style="list-style-type: none"> • Completely molded. • External components are unnecessary. • Wide input voltage range. • Remote control function. 	12
			12 ± 5%	6 to 66		
			15 ± 5%	5 to 52		
			- 5 ± 5%	16 to 160		
			- 12 ± 5%	6 to 66		
			- 15 ± 5%	5 to 52		
			± 5 ± 5%	(8 to 80) × 2		
± 12 ± 5%	(3 to 33) × 2					
± 15 ± 5%	(3 to 26) × 2					
CBG	0.8	4.5 to 6	5 ± 5%	0 to 160	<ul style="list-style-type: none"> • Completely shielded package. • High output voltage stability. • Floating input and output. • External components are unnecessary. • Short circuit protection. • Remote control function. 	13
			12 ± 5%	0 to 66		
			± 12 ± 8%	(0 to 33) × 2		