

DC TO DC CONVERTERS

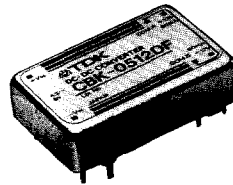
Input voltage E_{dc}: 4.5 to 30V and 4.5 to 60V

CBK and CBM series

CBK SERIES

FEATURES

- On board, isolated type DC to DC converter.
- Metal shielded except bottom side.



SPECIFICATIONS

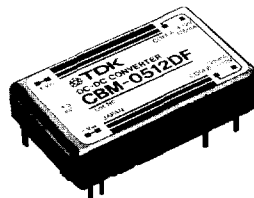
Operating temperature range	-10 to +70°C [With derating over 50°C]
Storage temperature range	-20 to +85°C
Insulation resistance	50MΩmin. [DC, 500V]
Withstand voltage E _{ac}	500V
Auxiliary function	Short circuit protection

Output power(W)	Part No.	Input voltage(V)	Output voltage(V)	Output current(mA)	Dimensions(mm) H×W×L	Weight (g)
1.25 to 1.5	CBK-0505SF	4.5 to 6	5±5%	0 to 250	8.5×22.5×33.5	12
	CBK-0512SF	4.5 to 6	12±5%	0 to 125		
	CBK-0515SF	4.5 to 6	15±5%	0 to 100		
	CBK-0512DF	4.5 to 6	±12±5%	(0 to 60) ×2		
	CBK-0515DF	4.5 to 6	±15±5%	(0 to 50) ×2		
	CBK-1205SF	10 to 16	5±5%	0 to 300		
	CBK-1212SF	10 to 16	12±5%	0 to 125		
	CBK-1215SF	10 to 16	15±5%	0 to 100		
	CBK-1212DF	10 to 16	±12±5%	(0 to 60) ×2		
	CBK-1215DF	10 to 16	±15±5%	(0 to 50) ×2		
	CBK-2405SF	20 to 30	5±5%	0 to 300		
	CBK-2412SF	20 to 30	12±5%	0 to 125		
	CBK-2415SF	20 to 30	15±5%	0 to 100		
	CBK-2412DF	20 to 30	±12±5%	(0 to 60) ×2		
	CBK-2415DF	20 to 30	±15±5%	(0 to 50) ×2		

CBM SERIES

FEATURES

- On board, isolated type DC to DC converter.
- Metal shielded type.



SPECIFICATIONS

Operating temperature range	-10 to +70°C [With derating over 50°C]
Storage temperature range	-20 to +85°C
Insulation resistance	50MΩmin. [DC, 500V]
Withstand voltage E _{ac}	500V
Auxiliary function	Short circuit protection



DC TO DC CONVERTERS

Input voltage Edc: 4.5 to 16V

CBN series

CBM SERIES

SPECIFICATIONS

Output power(W)	Part No.	Input voltage(V)	Output voltage(V)	Output current(mA)	Dimensions(mm) H×W×L	Weight (g)
3	CBM-0505SF	4.5 to 6	5±5%	0 to 600	8.9×29×41.1	20
	CBM-0512SF	4.5 to 6	12±5%	0 to 250		
	CBM-0515SF	4.5 to 6	15±5%	0 to 200		
	CBM-0512DF	4.5 to 6	±12±5%	(0 to 125) ×2		
	CBM-0515DF	4.5 to 6	±15±5%	(0 to 100) ×2		
	CBM-1205SF	10 to 16	5±5%	0 to 600		
	CBM-1212SF	10 to 16	12±5%	0 to 250		
	CBM-1215SF	10 to 16	15±5%	0 to 200		
	CBM-1212DF	10 to 16	±12±5%	(0 to 125) ×2		
	CBM-1215DF	10 to 16	±15±5%	(0 to 100) ×2		
	CBM-2405SF	20 to 30	5±5%	0 to 600		
	CBM-2412SF	20 to 30	12±5%	0 to 250		
	CBM-2415SF	20 to 30	15±5%	0 to 200		
	CBM-2412DF	20 to 30	±12±5%	(0 to 125) ×2		
	CBM-2415DF	20 to 30	±15±5%	(0 to 100) ×2		
	CBM-4805SF	32 to 60	5±5%	0 to 600		
	CBM-4812SF	32 to 60	12±5%	0 to 250		
	CBM-4815SF	32 to 60	15±5%	0 to 200		
	CBM-4812DF	32 to 60	±12±5%	(0 to 125) ×2		
	CBM-4815DF	32 to 60	±15±5%	(0 to 100) ×2		

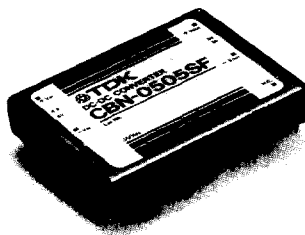
CBN SERIES

FEATURES

- On board, isolated type DC to DC converter.
- Metal shielded type.

SPECIFICATIONS

Operating temperature range	-10 to +70°C [With derating over 50°C]
Storage temperature range	-20 to +85°C
Insulation resistance	50MΩmin. [DC, 500V]
Withstand voltage Eac	500V
Auxiliary functions	Short circuit protection, Fuse included



Specifications which provide more details for the proper and safe use of the described product are available upon request.

All specifications are subject to change without notice.

DC TO DC CONVERTERS

Input voltage E_{dc}: 18 to 56V

CAP series

CBN SERIES

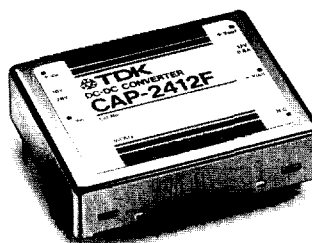
SPECIFICATIONS

Output power(W)	Part No.	Input voltage(V)	Output Voltage(V)	Output current(mA)	Dimensions(mm) H×W×L	Weight (g)
5	CBN-0505SF	4.5 to 6	5±5%	0 to 1000	8.8×39.5×49.5	30
	CBN-0512SF	4.5 to 6	12±5%	0 to 420		
	CBN-0515SF	4.5 to 6	15±5%	0 to 240		
	CBN-0512DF	4.5 to 6	±12±5%	(0 to 210) ×2		
	CBN-0515DF	4.5 to 6	±15±5%	(0 to 170) ×2		
	CBN-1205SF	10 to 16	5±5%	0 to 1000		
	CBN-1212SF	10 to 16	12±5%	0 to 420		
	CBN-1215SF	10 to 16	15±5%	0 to 340		
	CBN-1212DF	10 to 16	±12±5%	(0 to 210) ×2		
	CBN-1215DF	10 to 16	±15±5%	(0 to 170) ×2		

CAP SERIES

FEATURES

- On board, isolated type DC to DC converter.
- Metal shielded.



SPECIFICATIONS

Operating temperature range	-10 to +70°C [With derating over 50°C]
Storage temperature range	-20 to +85°C
Insulation resistance	50MΩmin. [DC, 500V]
Withstand voltage Eac	500V
Auxiliary function	Short circuit protection

Output power(W)	Part No.	Input voltage(V)	Output voltage(V)	Output current(mA)	Dimensions(mm) H×W×L	Weight (g)
8	CAP-2405F	18 to 28	5±5%	0 to 1600	13.2×39.5×49.5	42
10	CAP-2412F	18 to 28	12±5%	0 to 800		
8	CAP-4805F	36 to 56	5±5%	0 to 1600		
10	CAP-4812F	36 to 56	12±5%	0 to 800		

