



## DC-DC CONVERTER

# CX3S

Model list

output \ input	4.5V~5.8V	10.5V~14V	21V~28V
5V, 600mA	CX3S05-05	CX3S05-12	CX3S05-24
12V, 250mA	CX3S12-05	CX3S12-12	CX3S12-24
15V, 200mA	CX3S15-05	CX3S15-12	CX3S15-24

Maximum Rating and Environmental Characteristics

Maximum Input Voltage	Operating Temperature Range	-20 ~ +70°C
CX3S -05 7V	Storage Temperature Range	-40 ~ +100°C
CX3S -12 16V	Humidity Range	20 ~ +95%RH
CX3S -24 32V	Vibration	2G(5~55Hz)
Isolation Withstand AC500V	Impact Shock	30G

Electrical Characteristics (Ta=+25°C)

ITEM	CONDITIONS	CX3S05-05 CX3S05-12 CX3S05-24	CX3S12-05 CX3S12-12 CX3S12-24	CX3S15-05 CX3S15-12 CX3S15-24
Output Voltage	Io=max	5.0V±5%	12.0V±3%	15.0V±3%
Maximum Output Current	Ta=-20 ~ 55°C Ta=70°C	600mA 420mA	250mA 185mA	200mA 140mA
Efficiency	CX3S -05 Vin=typ, Io=max CX3S -12/24 Vin=typ, Io=max	58% typ (50% min) 60% typ (54% min)	60% typ (55% min) 63% typ (58% min)	60% typ (55% min) 63% typ (58% min)
Input Regulation Ratio	Vin=min ~ max	0.3% max	0.2% max	0.2% max
Output Regulation Ratio	Io=0 ~ 100%	0.3% max	0.2% max	0.2% max
Temperature Drift	Ta=-20 ~ +70°C,	0.05%/°C max		
Output Noise	CX3S -05/12 CX3S -24 20MHz band	15mVpp max 20mVpp max		
Isolation between P&S	DC 1000V	500MΩ min		
Isolation Withstand	AC 50/60Hz 1 minute	500V AC		
Capacity between P&S		300 pF typ		
Weight		35g		



## DC-DC CONVERTER

# CX3D

Model list

output \ input	4.5V~5.8V	10.5V~14V	21V~28V
±12V, ±125mA	CX3D12-05	CX3D12-12	CX3D12-24
±15V, ±100mA	CX3D15-05	CX3D15-12	CX3D15-24

Maximum Rating and Environmental Characteristics

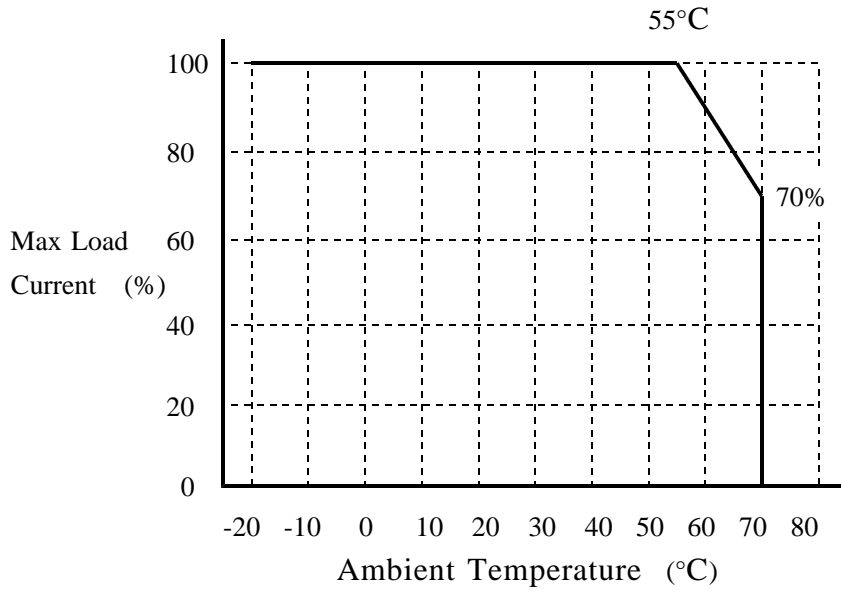
<p>Maximum Input Voltage</p> <p>CX3D -05 7V</p> <p>CX3D -12 16V</p> <p>CX3D -24 32V</p> <p>Isolation Withstand AC500V</p>	<p>Operating Temperature Range -20 ~ +70°C</p> <p>Storage Temperature Range -40 ~ +100°C</p> <p>Humidity Range 20 ~ +95%RH</p> <p>Vibration 2G(5~55Hz)</p> <p>Impact Shock 30G</p>
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Electrical Characteristics (Ta=+25°C)

ITEM	CONDITIONS	CX3D12-05 CX3D12-12 CX3D12-24	CX3D15-05 CX3D15-12 CX3D15-24
Output Voltage	I <sub>o</sub> =max	±12.0V±3%	±15.0V±3%
Maximum Output Current	T <sub>a</sub> =-20 ~ 55°C T <sub>a</sub> =70°C	±125mA ± 88mA	±100mA ± 70mA
Efficiency	CX3D -05 V <sub>in</sub> =typ, I <sub>o</sub> =max CX3D -12/24 V <sub>in</sub> =typ, I <sub>o</sub> =max	60% typ (54% min) 63% typ (58% min)	60% typ (54% min) 63% typ (58% min)
Input Regulation Ratio	V <sub>in</sub> =min ~ max	0.2% max	0.2% max
Output Regulation Ratio	I <sub>o</sub> =0 ~ 100%	0.2% max	0.2% max
Temperature Drift	T <sub>a</sub> =-20 ~ +70°C,	0.05%/°C max	
Output Noise	CX3D -05/12 CX3D -24 20MHz band	15mV <sub>pp</sub> max 20mV <sub>pp</sub> max	
Isolation between P&S	DC 1000V	500MΩ min	
Isolation Withstand	AC 50/60Hz 1 minute	500V AC	
Capacity between P&S		300 pF typ	
Weight		35g	

Derating

Load vs Ambient Temperature



Ordering information

CX 3 \_ \_ \_ - \_

- Series name
- Output wattage
- Output(Single/Double)
- S:Single D:Double
- output voltage
- input voltage

Dimensions

CX3Sシリーズ

CX3Dシリーズ

