

SELECTION GUIDE

Order code	Input Voltage (V)	Output Voltage (V)	Output Current max(MA)	Capacitive load,max (μF)	Efficiency (%)
2B0503XES	4.5-5.5	3.3	600	470	64
2B0505XES	4.5-5.5	5	400	470	66
2B0507XES	4.5-5.5	7.2	278	470	64
2B0509XES	4.5-5.5	9	222	470	66
2B0512XES	4.5-5.5	12	167	470	70
2B0515XES	4.5-5.5	15	134	470	70
2B0518XES	4.5-5.5	18	111	470	67
2B0524XES	4.5-5.5	24	83	470	68
2B1203XES	10.8-13.2	3.3	600	470	64
2B1205XES	10.8-13.2	5	400	470	66
2B1207XES	10.8-13.2	7.2	278	470	63
2B1209XES	10.8-13.2	9	222	470	66
2B1212XES	10.8-13.2	12	167	470	70
2B1215XES	10.8-13.2	15	134	470	70
2B1218XES	10.8-13.2	18	111	470	66
2B1224XES	10.8-13.2	24	83	470	68
2B2403XES	21.6-26.4	3.3			

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Order code	Input Voltage (V)	Output Voltage (V)	Output Current max(MA)	Capacitive load,max (μF)	Efficiency (%)
H0512XES	4.5-5.5	12	167	470	70
H0515XES	4.5-5.5	15	134	470	70
H0518XES	4.5-5.5	18	111	470	67
H0524XES	4.5-5.5	24	83	470	68
H1203XES	10.8-13.2	3.3	600	470	53
H1205XES	10.8-13.2	5	400	470	66
H1207XES	10.8-13.2	7.2	278	470	63
H1209XES	10.8-13.2	9	222	470	66
H1212XES	10.8-13.2	12	167	470	70
H1215XES	10.8-13.2	15	134	470	70
H1218XES	10.8-13.2	18	111	470	66
H1224XES	10.8-13.2	24	83	470	68
H2403XES	21.6-26.4	3.3	600	470	54
H2405XES	21.6-26.4	5	400	470	64
H2407XES	21.6-26.4	7.2	278	470	63
H2409XES	21.6-26.4	9	222	470	64
H2412XES	21.6-26.4	12	167	470	68
H2415XES	21.6-26.4	15	134	470	68
H2418XES	21.6-26.4	18	111	470	68
H2424XES	21.6-26.4	24	83	470	70

Input Specifications				
Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-5.5		VDC
	12	10.8-13.2		
	24	21.6-25.4		
Filter	Capacitor			
Turn on Transient process time			100	ms
Start up time		300		ms
Absolute Maximum Rating	5 Vin	0-7		VDC
	12 Vin	0-15		
	24 Vin	0-28		
Peak Input Voltage time		100		ms

Isolation Specifications				
Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	3 sec		1000, 3000 or 6000	VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Output Specifications				
Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Short Circuit protection	Continuous			
Short Circuit restart	Auto-recovery			
Line voltage regulation (Single)		±0.5		%
Load voltage regulation (Single)	Load 0 – 100%	±0.5		%
Load voltage regulation (Single)	Load 0 – 100%	±1.5		%
3.3V output model				
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	75		mV p-p
Rising time		150		ms

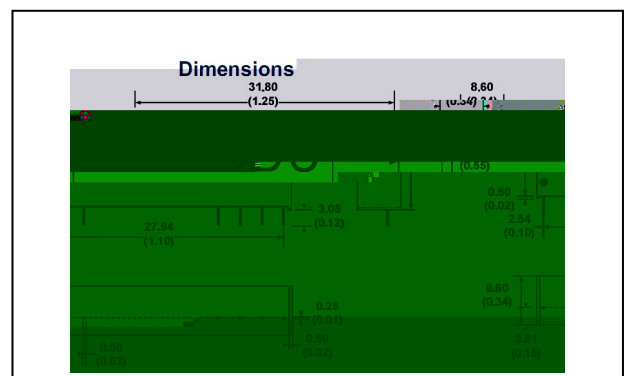
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	50		KHz
Operating temperature	Full Load without Derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Max Case temperature			90	°C
Cooling	Free air convection			%
Humidity			90	%
Case material	Plastic UL94-VO			
Weight		3.8		g
Dimensions (L x W x H)		1.25 x 0.34 x 0.53 inches 31.80 x 8.60 x 13.47 mm		
MTBF	>1 500 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25 C)			

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified

Pin Out Specifications

Pin	1000VDC	3000 and 6000VDC
1	+V Input	+V Input
2	N.C.	-V Input
3	N.C.	N.C.
9	N.C.	N.C.
10	-V Output	-V Output
11	+V Output	+V Output
12	-V Input	N.C.



RoHS COMPLIANT INFORMATION

This series is compatible with RoHS soldering systems with a peak wave solder temperature of 300° C for 10 seconds.
The pin termination finish on the SIP package type is Tin Plate, Hot Dipped over Matte Tin with Nickel Preplate. The DIP types are Matte Tin over Nickel Preplate. Both types in this series are backward compatible with Sn/Pb soldering systems.



REACH COMPLIANT INFORMATION

This series has proven that this product does not contain harmful chemicals, it also has harmful chemical substances through the registration, inspection and approval.