Power modules



PCBA SIP application: APX05SXX00WP-200

FEATURES

Input voltage range:85VAC~305VAC/100VDC-430VDC;

Compact size, SIP footprint;

Comply with the EU RoHS Directive; UL, TUV, CQC Approved;

Operating temperature range:-40°C~+85°C;

Low standby power: 0.15W max @230VAC;

Primary/Secondary Insulation: ≥3600VAC;

Conforms to EN/IEC/UL62368-1;

Conforms to IEC/EN61558-2-16:

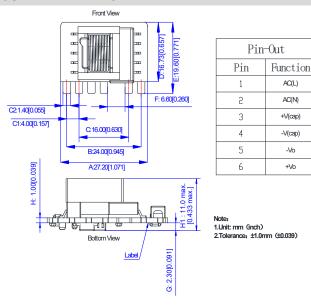




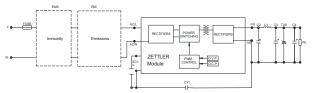




OUTLINE DRAWING



TYPICAL APPLICATION SCHEMATIC



APX05SXX00WP-200 Series additional component selection guide(no EMC devices)								
Part no.	EC1 ¹	C2 (required)	L1 (required)	C3 ² (required)	C4	CY1 (required)	TVS ³	
APX05S0300WP-200	22µF/450V (-40°C to 85°C with	820µF/6.3V (solid-state capacitor)	4.7uH	100μF/ 16V	0.1μF/ 50V	40.57	SMBJ5.0A	
APX05S0500WP-200	85-305 Vac input) 10uF/450V	470uF/16V (solid-state capacitor)					SMBJ7.0A	
APX05S0900WP-200	(-25°C to 85°C with	270uF/16V	max 60mΩ/		(ceramic	1.0nF/ 400Vac	SMBJ12A	
APX05S1200WP-200	85-305 Vac input, or -40°C to 85°C with	(solid-state capacitor)	2A	47μF/ 35V	capacitor)		SMBJ20A	
APX05S1500WP-200		220uF/35V					SMBJ20A	
APX05S2400WP-200							SMBJ30A	

Note:

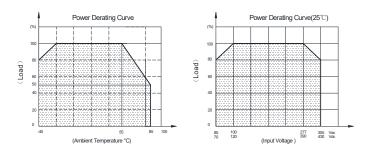
1. Recommended to use a capacitor with ripple current >200 mA at 100 kHz.

2. Recommended to use a high frequency, low ESR, electrolytic capacitor (<= (1.10 at -40 C) with at least 20% margin on voltage rating.

3.4 suppressor dioled (TWS) is recommended to protect the downstream application in case of converter failure and should be rated for a minimum of 1.2 times the converter's output voltage.

4. The FUSE component is required, recommended to use a slow break fuse with 1A/300V SPEC.

PRODUCT CHARACTERISTIC CURVE



MODEL LIST

Model No.	Output	Rated					
Woder No.	voltage	current					
APX05S0300WP-200	3.3Vdc	1000mA					
APX05S0500WP-200	5Vdc	1000mA					
APX05S0900WP-200	9Vdc	560mA					
APX05S1200WP-200	12Vdc	420mA					
APX05S1500WP-200	15Vdc	340mA					
APX05S2400WP-200	24Vdc	210mA					

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DISCLAIMER

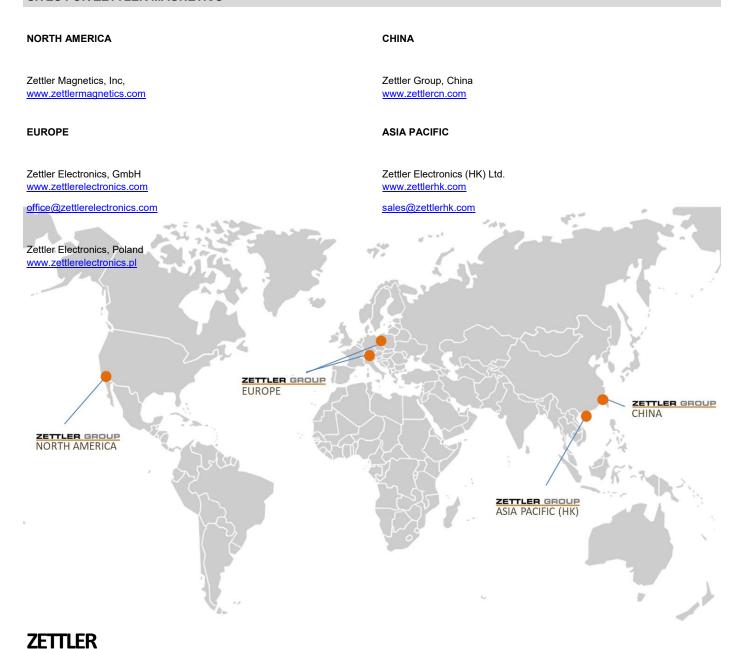
This product specification is to be used in conjunction with the application notes which can be downloaded from the regional ZETTLER magnetics websites. The specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.

ZETTLER GROUP

Building on a foundation of more than a century of expertise in German precision engineering, ZETTLER Group is a world-class enterprise, engaged in the design, manufacturing, sales and distribution of electronic components. Our industry leadership is based on a unique combination of engineering competence and global scale.

For more information on other ZETTLER Group companies, please visit <u>zettler-group.com</u>. For support on this product or other ZETTLER magnetics products, please visit one of the group sites below.

SITES FOR ZETTLER MAGNETICS



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