TAMURA Power Modules ?







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Five Key advantage

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Click "▶ Tamura's web site" for target block diagrams and other useful information! 3



Concerns about Noise and Vibration Sound ...



solutions and more information!



(Example: Substrate sample)

	Primary side	Replaced components	Secondary side	TOTAL
EPM	6	1	З	10
Discrete component	26	1	11	38

When discrete components are used, **29** components need to be prepared.

When the power supply module is used, **1** component needs to be prepared!



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A comparison of the number of components



(Comparison with Tamura's previous Power Module)



Concerns about Size …





(Comparison with Tamura's previous Power Module)

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Visit Tamura's web site for mounting methods and other details!



Visit Tamura's web site for application note!

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Product Lineup





Part No	Input voltage	Output voltage	Rated load	Output tolerance	RoHS	Status	
SPM0307SJ			3.3V	0.7A		OK	development
SPM0507SJ	DC110~420V	5V	0.66A		ОК	sample	
SPM1203SJ	(AC85~276V &PFC)	12V	0.28A	±5%	OK	sample	
SPM1502SJ		15V	0.24A		OK	sample	
SPM2402SJ		24V	0.15A		OK	development	





Part No	Input voltage	Output voltage	Rated load	Output tolerance	RoHS	Status	
EPM0310SJ	DC110~450V (AC85~276V &PFC)	3.3V	1A		OK	mass production	
EPM0510SJ		5V	1A		OK	mass production	
EPM1205SJ		EPM1205SJ DC110~450V EPM1210SJ (AC85~276V	12\/	0.5A		OK	mass production
EPM1210SJ			12 V	1A	±5%	% OK	mass production
EPM1505SJ		15V	0.5A		OK	sample	
EPM1510SJ		131	1A		OK	mass production	
EPM2405SJ		24V	0.5A		OK	mass production	



Part No	Input voltage	Output voltage	Rated load	Output tolerance	RoHS	Status
BPM0390SJ	DC110~420V (AC85~276V &PFC)	3.3V	9A		OK	development
BPM0580SJ		5V	8A		OK	development
BPM1234SJ		12V	3.4A	±5%	OK	development
BPM1527SJ		15V	2.7A		OK	development
BPM2417SJ		24V	1.7A		OK	sample



Functions

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SPM External Dimensions









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Note :1. The dimensional tolerance without directions is \pm 0.5mm.

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SPM Recommended Hole Diameter/Land Dimensions



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* Numbers in circles indicate pin numbers.

Unit : mm

EPM External Dimensions (FE19S Type) EPM







EPM Recommended Hole Diameter/Land Dimensions

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(FE19S Type)





24

Unit : mm

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BPM External Dimensions BPM (4) 2 23.6 3.8 0.64 CP Wire 31.7 6 10 d' 3-3 3-3 5 28 5 2-6 1.5 3-3 5.35 (1.85) (14) 1 2.5 4.7 (7.75) 31 22 12

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Note :1.The dimensional tolerance without directions is ± 0.5mm.

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BPM Recommended Hole Diameter/Land Dimensions



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. . . * Numbers in circles indicate pin numbers.

Unit : mm



Features

- 1. Easy to design compact AC/DC due to small number of external components
- 2. Potential design evaluation time savings; EMC, open/short circuit testing, & etc.
- 3. Enables significant reduction in power consumption of no-load and light load
- 4. Corresponding world wide input and PFC output voltage
- 5. Unique Tamura design insures significant reduction in 'buzz' under light-load

conditions for lower noise level



Applications

Consumer electronics, Information processing equipment, AV equipment ,Stand-by Power





REFRIGERATOR



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SMART METER

-

AV





AIR-CONDITIONER



TOILETARY



UPS GENERAL-INVERTER



LED LIGHTING



PV INVERTER



Example of Application



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http://www.tamura-ss.co.jp/electronics/en/



Thank you!!