

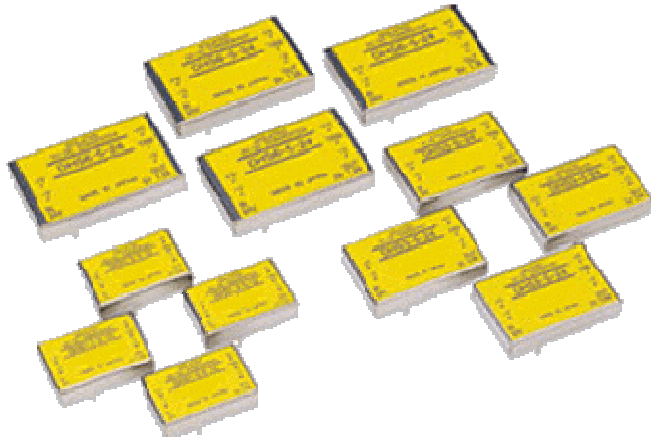


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HIGH QUALITY SWITCHING POWER SUPPLIES

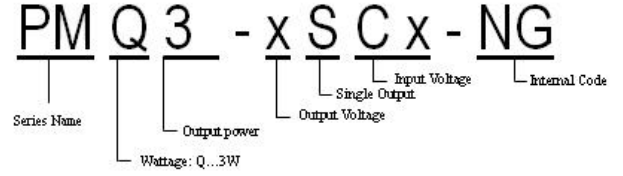
DC/DC SWITCHING POWER SUPPLY
DC INPUT 5,12,24,48
SINGLE OUTPUT
3 WATTS

PMQ3-SC-NG SERIES



Dimension [mm]: 35×23×7 (W×D×H)

General Description



DC INPUT: 5V

Input Characteristics	Unit	PMQ3-3.3SC05-NG	PMQ3-05SC05-NG	PMQ3-12SC05-NG	PMQ3-15SC05-NG
Rated input voltage	Vdc	DC 5V			
Input voltage range	Vdc	DC 4.5~9V			
Input current (typ.)	A	0.557	0.81	0.8	0.779
Efficiency *1	%	71%	74%	75%	77%

DC INPUT: 12V

Input Characteristics	Unit	PMQ3-3.3SC12-NG	PMQ3-05SC12-NG	PMQ3-12SC12-NG	PMQ3-15SC12-NG
Rated input voltage	Vdc	DC 12V			
Input voltage range	Vdc	DC 9~18V			
Input current (typ.)	A	0.226	0.329	0.316	0.316
Efficiency *1	%	73%	76%	79%	79%

DC INPUT: 24V

Input Characteristics	Unit	PMQ3-3.3SC24-NG	PMQ3-05SC24-NG	PMQ3-12SC24-NG	PMQ3-15SC24-NG
Rated input voltage	Vdc	DC 24V			
Input voltage range	Vdc	DC 18 ~ 36V			
Input current (typ.)	A	0.113	0.165	0.163	0.162
Efficiency *1	%	72%	75%	76%	77%

DC INPUT: 48V

Input Characteristics	Unit	PMQ3-3.3SC48-NG	PMQ3-05SC48-NG	PMQ3-12SC48-NG	PMQ3-15SC48-NG
Rated input voltage	Vdc	DC 48V			
Input voltage range	Vdc	DC 36 ~ 75V			
Input current (typ.)	A	0.058	0.084	0.081	0.081
Efficiency *1	%	71%	74%	77%	77%



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PMQ3-xSCx-NG

Output Characteristic		Models			
	Unit	PMQ3-3.3SCx-NG	PMQ3-05SCx-NG	PMQ3-12SCx-NG	PMQ3-15SCx-NG
Rated Output Voltage	Vdc	3.3	5	12	15
Rated Output Power	W	1.98	3	3	3
Rated Output Current	A	0.6	0.6	0.25	0.2
Output voltage range *1	%	±3%			
Ripple Noise(Max.)	mV p-p	60	60	90	90
Regulation					
a. Line Regulation	mV	20	20	48	60
b. Load Regulation	mV	40	40	100	120
c. Temperature Regulation*2	mV	50	50	150	180

Environmental Specification	
Operating Temperature *4	Convection cooling:-20~+71°C Forced air cooling:-20~+85°C
Operating Humidity	20~95%RH (No dew condensation permitted)
Storage Temperature	-40~+85°C
Storage Humidity	20~95%RH (No dew condensation permitted)
Cooling	Convection cooling / Forced air cooling
Dielectric Strength	
Withstand Voltage	Input-FG 500VAC for 1 min. Input-Output 500VAC for 1 min. Output-FG 500VAC for 1min.
Insulation Resistance	Input-FG 50MΩ at 500VDC Input-Output 50MΩ at 500VDC Output-FG 50MΩ at 500VDC
Functions	
Over Current Protection	Automatic recovery
	0.63A~ 0.63A~ 0.262A~ 0.21A~
Over Voltage Protection	N/A
	3.8V~ 5.75V~ 13.8V~ 17.3V~
Trimming of output voltage *3	+10% -15% ±10%
Input fuse	Built-in
Structure & Others	
Vibration Resistance	10~55Hz Acceleration:98m/s ² (10G) Cycle: 3min. Direction: X,Y,Z for 1 hour each
Shock Resistance	Acceleration:490.3m/s ² (50G) Time: 11ms Direction: X,Y,Z for 1hour each
Mechanical	
Dimension [mm]	35×23×7 (W×D×H)
Weight [g] (typical)	14g

Conditions:

*1 At Rated input voltage, Rated output current, Operating temp. 25°C

*2 At operating temp. -20~+71°C

*3 Possible by inserting appointed resistor at outside.

*4 Load should be reduced for operation at 55°C or above at convection cooling, and at 70°C or above at forced air cooling.



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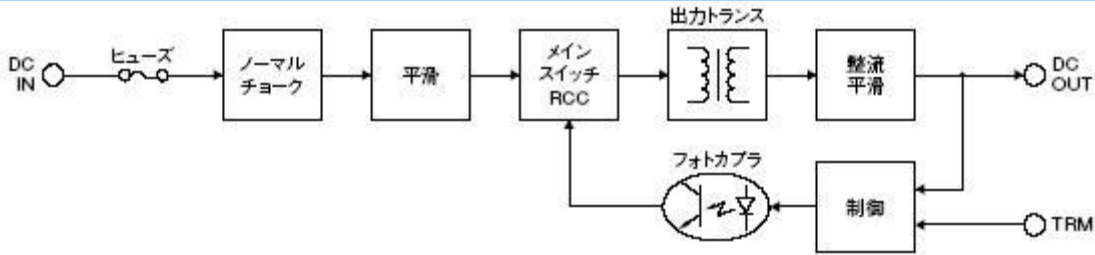
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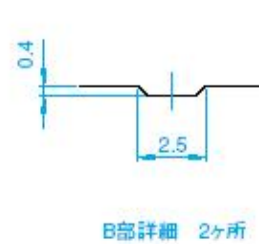
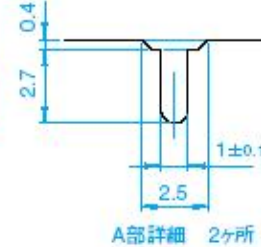
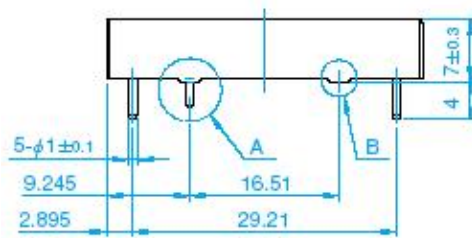
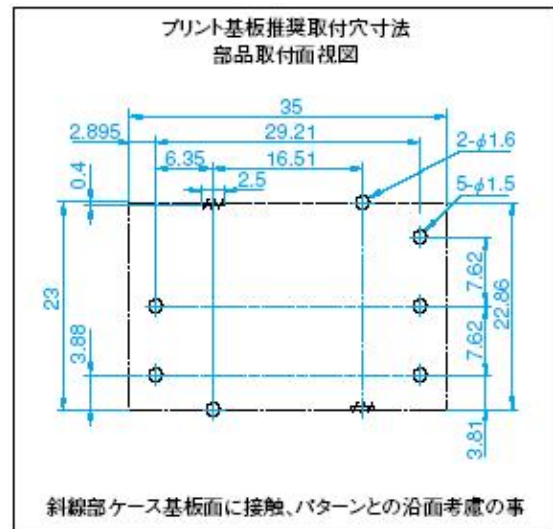
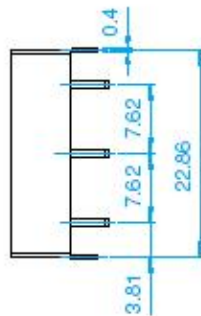
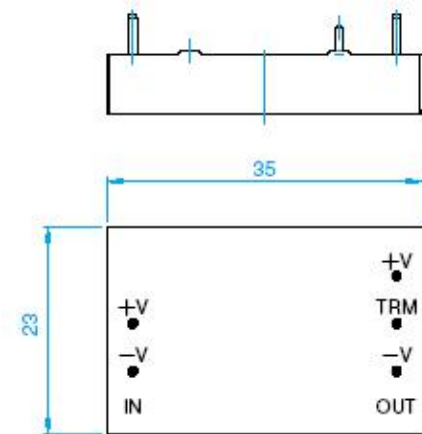
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HIGH QUALITY SWITCHING POWER SUPPLIES

BLOCK DIAGRAM



DIMENSION DIAGRAM (mm)



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