

Product Discontinuation Notices

PCB Power Relays

Issue Date
February 1, 2016

No. 2016011CE(ON)

Discontinuation Notice of PCB Power relays G6M series.

Product Discontinuation

PCB Power Relays



Model G6M Series

Recommended Replacement

PCB Power Relays



Model G6DN Series

[Discontinuation date]

The end of June, 2017

[Caution on recommended replacement]

There are dimensions.

Therefore, please re-evaluate adequacy with applications.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Model G6DN Series	**	*	**	**	**	**	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible



- : No corresponding specification

[Product Discontinuation and recommended replacement]

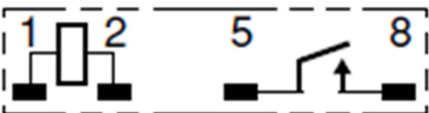
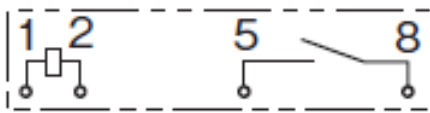
Product discontinuation	Recommended replacement
G6M-1A DC12 BY OMZ	G6DN-1A DC12
G6M-1A DC12 BY OMZ/C	G6DN-1A DC12
G6M-1A DC20 BY OMZ	G6DN
G6M-1A DC24 BY OMZ	G6DN-1A DC24
G6M-1A DC24 BY OMZ/C	G6DN-1A DC24
G6M-1A DC4.5 BY OMZ	G6DN-1A DC4.5
G6M-1A DC5 BY OMZ	G6DN-1A DC5
G6M-1A DC5 BY OMZ/C	G6DN-1A DC5
G6M-1A DC9 BY OMZ	G6DN
G6M-1A DC9 BY OMZ/C	G6DN
G6M-1A-M DC12 BY OMZ	G6DN-1A DC12
G6M-1A-M DC12 BY OMZ/C	G6DN-1A DC12
G6M-1A-M DC24 BY OMZ	G6DN-1A DC24
G6M-1A-M DC5 BY OMZ	G6DN-1A DC5

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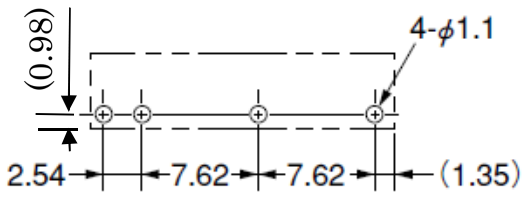
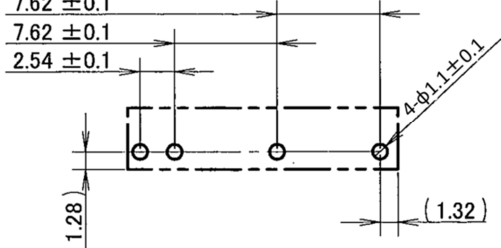
[Body color]

Product discontinuation Model G6M Series	Recommendable replacement Model G6DN Series
<p>Black</p> 	<p>Black</p> 

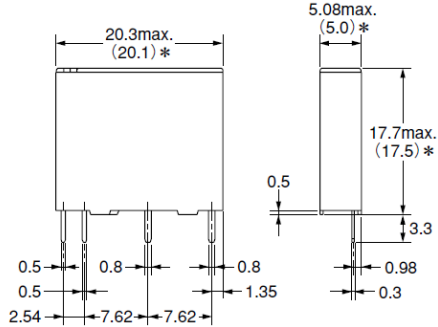
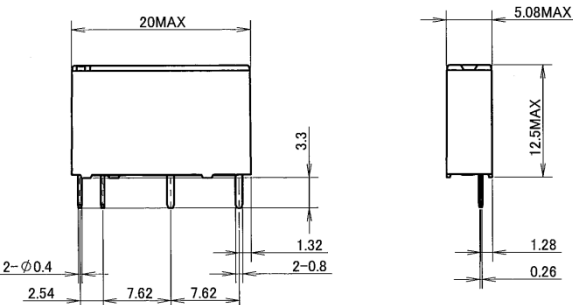
[Wire connection]

Product discontinuation Model G6M Series	Recommendable replacement Model G6DN Series
<p>BOTTOM VIEW</p>  <p>No coil polarity</p>	<p>BOTTOM VIEW</p>  <p>No coil polarity</p>

[Mounting dimensions]

Product discontinuation Model G6M Series	Recommendable replacement Model G6DN Series
<p>BOTTOM VIEW</p>  <p>Tolerance :±0.1mm</p>	<p>BOTTOM VIEW</p>  <p>Tolerance :±0.1mm</p>

[Dimensions]

Product discontinuation Model G6M Series	Recommendable replacement Model G6DN Series
<p>Average value</p> 	<p>Average value</p> 

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[Characteristics]

Item		Product discontinuation Model G6M Series	Recommendable replacement Model G6DN Series
■Ratings ●Coil Ratings			
Rated Voltage		4.5V,5V,12V,24V	4.5V,5V,12V,24V
Operate voltage		70% max. The must operate voltage is 72% or less of the rated voltage if the relay is mounted vertically and the terminals are pointed downwards.	70% max. Operating voltage is less than 72% when the relay is sideways and the marking is right way.
Release voltage		10% min.	5% min.
Maximum voltage		160%(at 23 degree C)	160%(at 23 degree C)
Power consumption		Approx.120mW	Approx.110mW
●Contact Ratings			
Contact type		Single	Cross bar twin
Contact material		Ag Alloy	Ag Alloy +Au(Only stationary contact)
Rated load		250VAC 3A 30VDC 3A	250VAC 5A 30VDC 5A
Rated carry current		5A	5A
■Characteristics			
Contact resistance *1		100mΩ max.	100mΩ max.
Operate time		10ms max.	10ms max.
Release time		5ms max.	5ms max.
Insulation resistance *2		1000MΩ min.	1000MΩ min.
Dielectric strength	Between coil and contacts	3000VAC, 50/60Hz for 1min	3000VAC, 50/60Hz for 1min
	Between contacts of the same polarity	750VAC, 50/60Hz for 1min	750VAC, 50/60Hz for 1min
Impulse withstand voltage	Between contacts of the same polarity	6,000V(1.2 × 50 μ s)	6,000V(1.2 × 50 μ s)
Vibration resistance	Destruction	10 to 55 to 10Hz,2.5mm single amplitude(5mm double amplitude)	10 to 55 to 10Hz,2.5mm single amplitude(5mm double amplitude)
	Malfunction	10 to 55 to 10Hz,0.75mm single amplitude(1.5mm double amplitude)	10 to 55 to 10Hz,0.75mm single amplitude(1.5mm double amplitude)
Shock resistance	Destruction	1000m/s ²	1000m/s ²
	Malfunction	100m/s ²	100m/s ²
Endurance	Mechanical	20,000,000 operations min.	20,000,000 operations min.
	Electrical	100,000operatons min. :3A at 250VAC/30VDC,1800 operations an hour	100,000operatons min. :3A at 250VAC/30VDC,1800 operations an hour 80,000operatons min. 5A at 250VAC/30VDC,1200 operations an hour
Failure rate(P level) (reference value)		5VDC,10mA	0.1VDC,0.1mA
Ambient temperature		-40 degree C to +85 degree C (with no icing or condensation)	-40 degree C to +90 degree C (with no icing or condensation)

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Note. Values in the above table are initial values.

Note 1. The contact resistance is measured with 1 A applied at 5 VDC using a fall-of-potential method.

Note 2. The insulation resistance is measured between coil and contacts and between contacts of the same polarity at 500 VDC.

[Operation methods]

Product discontinuation Model G6M Series	Recommendable replacement Model G6DN Series
<div data-bbox="639 488 962 535" style="border: 1px solid black; padding: 5px; display: inline-block;"> No difference </div>	

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.