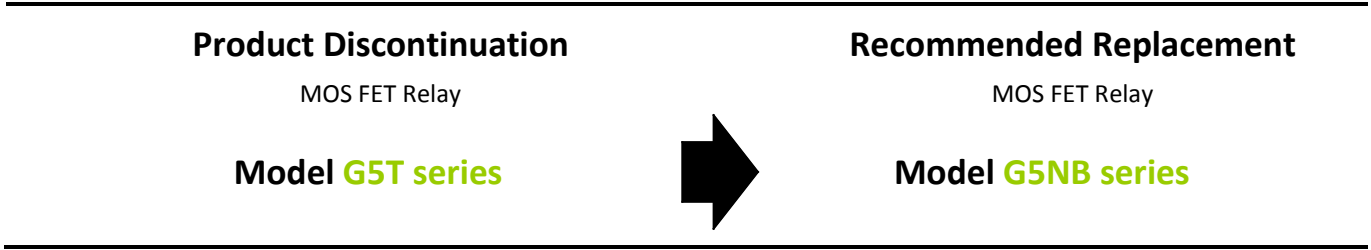


NO: REL-141
DATE: March 2014

PRODUCT: G5T PCB Power Relay
TYPE: Product **DISCONTINUATION**

G5T PCB Power Relays to be DISCONTINUED
March 31, 2016

Based upon a diminishing demand for the **G5T** series of PCB Power relays, OMRON will discontinue these models at the end of March 2016. While there is no direct replacement for this series, Omron recommends consideration of the **G5NB** PCB Power Relay, which is similar in size and dimensions. Please carefully read through and note the differences. The following details will fully explain the discontinuation and replacement considerations; should you have any additional questions, however, please communicate with your Omron sales team.



Discontinuation date
End of March, 2016

LAST Order date
August 28, 2015

Note: All product will ship by the end of March 2016, if ordered by the Last Order Date.

Caution on suggested replacement:



There are differences with Dimensions, PCB Layout, Contact Form, Ratings and Characteristics. Therefore, please consider the suggested replacement carefully, for new designs.

G5NB-1A - - Differences from discontinued product:


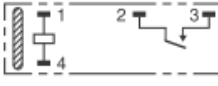
Suggested replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charact-eristics	Operation ratings	Operation methods
G5NB-1A	**	**	*	*	--	--	**

- ** : Compatible**
- * : The change is a little/Almost compatible**
- : Not compatible**
- : No corresponding specification**

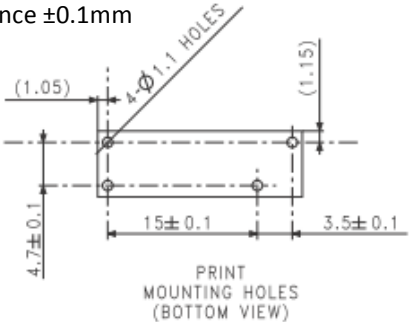
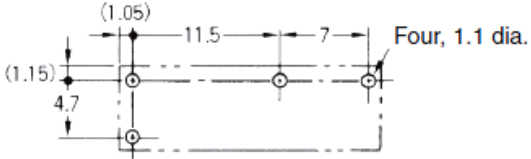
Body color:

Discontinued product Model G5T-1A Series	Suggested replacement Model G5NB-1A Series
<p>Black</p> 	<p>Black</p> 

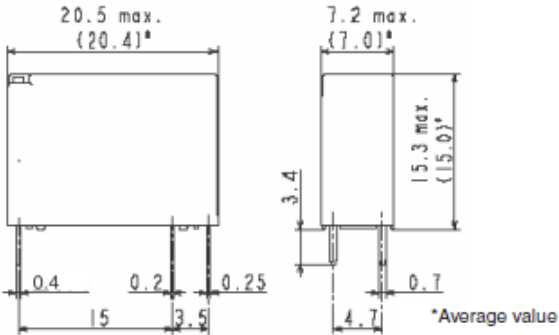
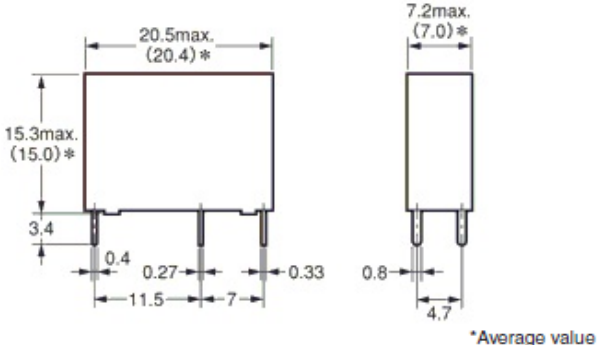
Wire connection:

Discontinued product Model G5T-1A Series	Suggested replacement Model G5NB-1A Series
<p>Model G5T-1A Series Terminal Arrangement / Internal Connections (Bottom View)</p>  <p>(No Coil Polarity)</p>	<p>Model G5NB-1A Series Terminal Arrangement / Internal Connections (Bottom View)</p>  <p>(No Coil Polarity)</p>

Mounting dimensions:

Discontinued product Model G5T-1A Series	Suggested replacement Model G5NB-1A Series
<p>Model G5T-1A Series Mounting dimensions (Bottom View) Tolerance $\pm 0.1\text{mm}$</p>  <p>PRINT MOUNTING HOLES (BOTTOM VIEW)</p>	<p>Model G5NB-1A Series Mounting dimensions (Bottom View) Tolerance $\pm 0.1\text{mm}$</p>  <p>PCB Mounting Holes (Bottom View)</p>

Dimensions:

Discontinued product Model G5T-1A Series	Suggested replacement Model G5NB-1A Series
<p>Model G5T-1A Series</p>  <p>*Average value</p>	<p>Model G5NB-1A Series</p>  <p>*Average value</p>

Characteristics, Operation ratings, and Operation method:

Item		Discontinued product Model G5T-1A Series			Suggested replacement Model G5NB-1A Series			
Coil Rating								
Rated Voltage(VDC)		5	12	24	5	12	18	24
Rated Current(mA)		40	16.7	8.3	40	16.7	11.1	8.3
Coil Resistance(Ω)		125	720	2,880	125	720	1,620	2,880
Operate voltage(%)		75% max.			75% max.			
Release voltage(%)		5% min.			10% min.			
Maximum voltage(%)		110%			110%			
Power consumption(mW)		Approx. 200			Approx. 200			
Contact Rating								
Rated load(resistive)		5A at 250VAC 5A at 30VDC			3A at 125VAC 3A at 30VDC			
Rated carry current		5A			3A			
Max. switching voltage		250VAC 30VDC			250VAC 30VDC			
Max. switching current		5A			3A			
Minimum Permissible Load		10mA at 5VDC (P level : $\lambda_{60}=0.1 * 10^{-6}$ /operation)			10mA at 5VDC (P level : $\lambda_{60}=0.1 * 10^{-6}$ /operation)			
Characteristics								
Contact resistance		100m Ohm max.			100m Ohm max.			
Operate time		10ms max.			10ms max.			
Release time		10ms max.			10ms max.			
Insulation resistance		1000M Ohm min.			1000M Ohm min.			
Dielectric strength		4,000VAC, 50/60Hz for 1min. between coil and contacts 750VAC, 50/60Hz for 1min. between contacts of same polarity			4,000VAC, 50/60Hz for 1min. between coil and contacts 750VAC, 50/60Hz for 1min. between contacts of same polarity			
Vibration resistance	Destruction	10 to 55Hz, 0.75mm single amplitude (1.5mm double amplitude)			10 to 55Hz, 0.75mm single amplitude (1.5mm double amplitude)			
	Malfunction	10 to 55Hz, 1.5mm double amplitude			10 to 55Hz, 1.5mm double amplitude			
Shock resistance	Destruction	1,000m/s ² (approx.100G)			1,000m/s ² (approx.100G)			
	Malfunction	100m/s ² (approx.10G)			100m/s ² (approx.10G)			
Service Life	Mechanical	2,000,000 operations min. (at 18,000 operations/hr)			5,000,000 operations min. (at 18,000 operations/hr)			
	Electrical (resistive load)	100,000 operations min. (3A at 250VAC, 30VDC) 30,000 operations min. (5A at 250VAC, 30VDC) (at 1,800 operations/hr)			200,000 operations min. (3A at 125VDC, DC30V) (at 1,800 operations/hr)			
Ambient operating temperature		-40°C to 70°C (with no icing or condensation)			-40°C to 70°C (with no icing or condensation)			
Ambient operating humidity		5% to 85%			5% to 85%			
Weight		Approx.3g			Approx.4g			

Operation Method

Discontinued product Model G5T-1A Series	Suggested replacement Model G5NB-1A Series	
<table border="1"><tr><td>No Difference</td></tr></table>		No Difference
No Difference		

Discontinued product and recommended replacement:

Discontinued product	Suggested replacement
G5T-1A DC12 BY OMZ	G5NB-1A DC12 BY OMZ (N)(A)
G5T-1A DC12 BY OMZ/C	G5NB-1A DC12 BY OMZ/C (N)(A)
G5T-1A DC24 BY OMZ	G5NB-1A DC24 BY OMZ (N)(A)
G5T-1A DC24 BY OMZ/C	G5NB-1A DC24 BY OMZ/C (N)(A)
G5T-1A DC5 BY OMZ	G5NB-1A DC5 BY OMZ (N)(A)
G5T-1A DC5 BY OMZ/C	G5NB-1A DC5 BY OMZ/C (N)(A)
G5T-1A DC9 BY OMZ	No Recommended Replacement
G5T-1A-ASI DC12 BY OMZ	G5NB-1A DC12 BY OMZ (N)(A)
G5T-1A-ASI DC24 BY OMZ	G5NB-1A DC24 BY OMZ (N)(A)

* Please, advise your customers of this notification.
For further technical support and any questions, please communicate with Omron Electronic Components LLC.