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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



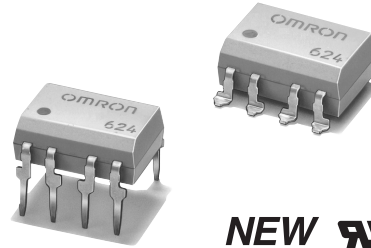
MOS FET Relays G3VM-22CO/FO

New MOS FET Relay Featuring Unique Contact Construction (1 Input Channel Drives 2 Output Channels)

- Ideal for application in line interface and data logging blocks.
- Switches minute analog signals.
- Switching AC and DC.
- RoHS Compliant.

Application Examples

- ADSL modems and routers
- Edge routers
- Data storage devices



NEW Approval pending

Note: The actual product is marked differently from the image shown here.

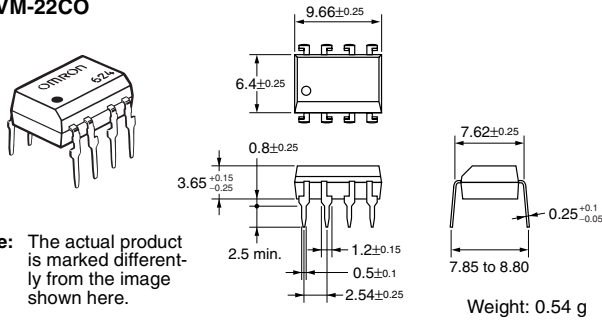
List of Models

Contact form	Terminals	Load voltage (peak value)	Model	Number per stick	Number per tape
DPST-NO	PCB terminals	20 VAC	G3VM-22CO	50	---
	Surface-mounting terminals		G3VM-22FO		
			G3VM-22FO(TR)	---	1,500

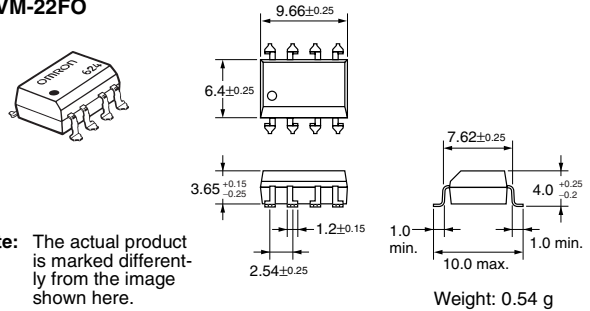
Dimensions

Note: All units are in millimeters unless otherwise indicated.

G3VM-22CO

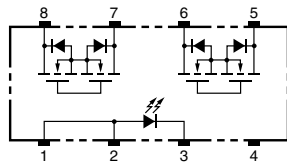


G3VM-22FO

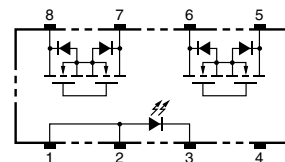


Terminal Arrangement/Internal Connections (Top View)

G3VM-22CO

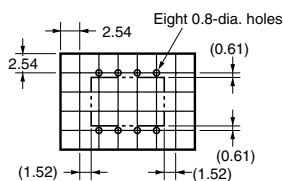


G3VM-22FO



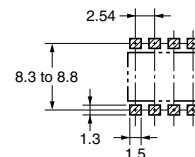
PCB Dimensions (Bottom View)

G3VM-22CO



Actual Mounting Pad Dimensions (Recommended Value, Top View)

G3VM-22FO



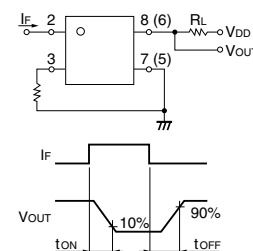
■ Absolute Maximum Ratings (Ta = 25°C)

Item		Symbol	Rating	Unit	Measurement conditions
Input	LED forward current	I_F	50	mA	
	Repetitive peak LED forward current	I_{FP}	1	A	100 μ s pulses, 100 pps
	LED forward current reduction rate	$\Delta I_F/^\circ\text{C}$	-0.5	mA/°C	Ta \geq 25°C
	LED reverse voltage	V_R	6	V	
	Connection temperature	T_j	125	°C	
Output	Output dielectric strength	V_{OFF}	20	V	
	Continuous load current	I_O	150	mA	
	ON current reduction rate	$\Delta I_{ON}/^\circ\text{C}$	-1.5	mA/°C	Ta \geq 25°C
	Connection temperature	T_j	125	°C	
Dielectric strength between input and output		V_{I-O}	2,500	Vrms	AC for 1 min
Operating temperature		T_a	-40 to +85	°C	With no icing or condensation
Storage temperature		T_{stg}	-55 to +125	°C	With no icing or condensation
Soldering temperature (10 s)		---	260	°C	10 s

■ Electrical Characteristics (Ta = 25°C)

Item		Symbol	Minimum	Typical	Maximum	Unit	Measurement conditions
Input	LED forward voltage	V_F	1.0	1.15	1.3	V	$I_F = 10$ mA
	Reverse current	I_R	---	---	10	μ A	$V_R = 5$ V
	Capacity between terminals	C_T	---	15	---	pF	V = 0, f = 1 MHz
	Trigger LED forward current	I_{FT}	---	1.5	5	mA	$I_O = 150$ mA
Output	Maximum resistance with output ON	R_{ON}	---	2	4	Ω	$I_F = 5$ mA, $I_O = 150$ mA
	Current leakage when the relay is open	I_{LEAK}	---	10×10^{-6}	1.0	μ A	$V_{OFF} = 20$ V
Capacity between I/O terminals		C_{I-O}	---	0.8	---	pF	f = 1 MHz, Vs = 0 V
Insulation resistance		R_{I-O}	1,000	---	---	M Ω	$V_{I-O} = 500$ VDC, RoH \leq 60%
Turn-ON time		tON	---	---	1.0	ms	$I_F = 5$ mA, $R_L = 200 \Omega$, $V_{DD} = 20$ V (See note.)
Turn-OFF time		tOFF	---	---	1.0	ms	

Note: Turn-ON and Turn-OFF Times



■ Recommended Operating Conditions

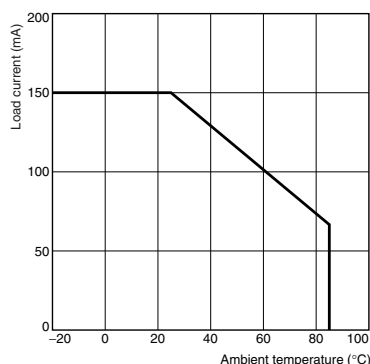
Use the G3VM under the following conditions so that the Relay will operate properly.

Item	Symbol	Minimum	Typical	Maximum	Unit
Output dielectric strength	V_{DD}	---	---	20	V
Operating LED forward current	I_F	5	---	30	mA
Continuous load current	I_O	---	---	150	mA
Operating temperature	T_a	-25	---	65	°C

■ Engineering Data

Load Current vs. Ambient Temperature

G3VM-22CO(FO)



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OMRON®

**OMRON ELECTRONIC
COMPONENTS LLC**

55 E. Commerce Drive, Suite B
Schaumburg, IL 60173

847-882-2288

OMRON CANADA, INC.

885 Milner Avenue
Toronto, Ontario M1B 5V8

416-286-6465

OMRON ON-LINE

Global - <http://www.omron.com>

USA - <http://www.components.omron.com>

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