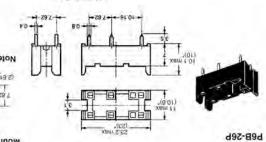
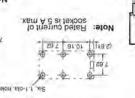
To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.







Note: Height of G6B-1174P-US

Mounting Holes (Bottom View)

Mounting Holes (Bottom View) 990-89q

PCB Power Relay - G6B

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Wm 008 .xorqqA

140% (at 23°C)

allowable voltage

Model number

₩ Dr



G2RG-2A4

## ■ ROHS compliant. Power Relay with 1.5mm Contact Gap

 $\blacksquare$  Clearance between contact terminals of the same

3. The maximum allowable voltage is the maximum possible value of the voltage that can be applied to the relay coil.

80% max.

Must-operate

Rated coil voltage

.nim %01

4: Plastic sealing

3. Protective Structure

Voltage

Note: 1. The rated current and coil resistance are for a coil temperature of 23°C and have a tolerance of ±10%. 2. The operating characteristics given in the above table are for a coil temperature of 23°C.

750 &

2 081

Coil resistance

54 ADC

Am £.££

Am 6.68

Contact form Ordering Information -

■ Tracking resistance: CTI > 250 V. ■ Meets EN60335-1 requirements.

nim mm 3.1 : 1,5 mm min.

■ Conforms to EN 61810-1, UL508, CSA22.2. Note:UPS: Uninterruptible power systems. ■ Meets the requirements of European UPS standards.

Rated voltage Rated current

■ Coil Ratings Specifications -

> A: N.O. contact 2. Contact Form

> > 2: 2 poles

1. Number of Poles

G2RG-□□□ Model Number Legend

DPST-NO

### PCB Power Relay - G2RG

24 VDC

15 ADC

### ■ Approved Standards

The approvedrated values for international standards are different to the individually specified characteristic values. Be sure to confirm that required standardsare satisfied before actual use.

### UK508 (File No. E41643)

2RG-2A4   DPST-NO   12 to 24 VDC   8 A, 250 VAC (general use)	Contact rating	Coil rating	mnot fostnoO	ləboM
	8 A, 250 VAC (general use)	15 to 54 ADC	DP-TS-NO	2RG-2A4

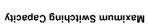
### CSA C22.2 No. 14 (File No. LR31928)

8 A, 250 VAC (general use)	12 to 24 VDC	DPST-NO	G2RG-2A4
Contact rating	Coil rating	Contact form	ІэроМ

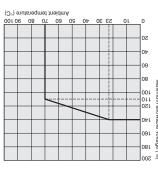
## EN 61810-1 (VDE Reg No. 6166)

		,	
Contact rating	Coil rating	mnot form	ləboM
8 A, 250 VAC	15, 24 VDC	DPST-NO	62RG-2A4

## Engineering Data –









Note: The maximum allowable voltage is the maximum possible value of the voltage that can be applied to the relay coil.

Ambient Temperature vs Maximum Allowable

## PCB Power Relay - G2RG

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## ■ Contact Ratings

Note: P level: $\lambda$ 60 = 0.1 x 10-6/operation	noifishedo\0-01 x f.0 = 00i, ilevel 9 :e:			
Failure rate (P level, reference value) (See note.)	5 VDC, 10 mA			
Maximum switching current	A 8			
Maximum switching voltage	380 VAC, 125 VDC			
Rated carry current	A 8			
psol bateA	3 A A at 250 VAC			
Contact material	nln2gA			
Contact mechanism	Single			
beod	Resistive load			

## ■ Characteristics

Ambient operating	humidity	%58 of %2
Ambient operating	temperature	-40 √°C (with no icing or condensation)
	Electrical	10,000 operations (at 1,800 operations/hr under rated load)
Endurance	Mechanical	(in/anoistrago 000,81 1s) .nim anoistrago 000,000,1
	Malfunction	besignene nergised
Shock resistance	Destruction	<sup>2</sup> s/m 000, ľ
resistance	Malfunction	(ebutiliqms elduob mm 3.1) abutiliqms elgnis mm 27.0 , zH01 ot 53 ot 01
Vibration	Destruction	(ebutiligms elduob mm 3.1) abutiligms elgnis mm 27.0, 2H01 ot 33 ot 01
mpulse withstand	voltage	10 kV (1.2 x 50µs)
Dielectric Strength		5,000 VAC, 50/60Hz for 1 min between coil and contacts 3,000 VAC, 50/60Hz for 1 min between contacts of different polarity 1,000 VAC, 50/50 Hz for 1 min between contacts of the same polarity
Tracking Resistanc	(ITO 9	Σ <sub>2</sub> 0 Λ
Distance	Clearance (Typ)	mm 8.8
Insulation	Creepage (Typ)	mm 0.0t
bnstantiw ealuqml	voltage	10KV x50µs
nstsiseA noitsluenl	ce (See note 2)	1,000 M2 min (at 500VDC
frequency	Electrical	1,800 operations/hr (under rated load)
Max. switching	Mechanical	18,000 operations/hr
Insulation resistano	(.6 eton ee2) ea	7)000 Ms nim 2M 000,1
Release time		5 max.
Operate time		15ms max.
Contact resistance	(See note 2.)	.xsm 900 ms.

PS.71 xorqqA

Note 1. The above values are initial values (at an ambient temperature of 23°C).

2. Measurement conditions: 5 VDC, 1 A voltage-drop method.

3. Measurement conditions: Measure with a 500 VDC megohmmeter at the same places as the dielectric strength.

### ■ Approved Standards

The approvedrated values for international standards are different to the individually specified characteristic values. Be sure to confirm that required standardsare satisfied before actual use.

### UK508 (File No. E41643)

2RG-2A4   DPST-NO   12 to 24 VDC   8 A, 250 VAC (general use)	Contact rating	Coil rating	mnot fostnoO	ləboM
	8 A, 250 VAC (general use)	15 to 54 ADC	DP-TS-NO	2RG-2A4

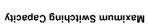
### CSA C22.2 No. 14 (File No. LR31928)

8 A, 250 VAC (general use)	12 to 24 VDC	DPST-NO	G2RG-2A4
Contact rating	Coil rating	Contact form	ІэроМ

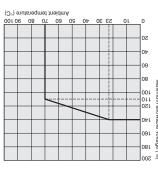
## EN 61810-1 (VDE Reg No. 6166)

		,	
Contact rating	Coil rating	mnot form	ləboM
8 A, 250 VAC	15, 24 VDC	DPST-NO	62RG-2A4

## Engineering Data –









Note: The maximum allowable voltage is the maximum possible value of the voltage that can be applied to the relay coil.

Ambient Temperature vs Maximum Allowable

## PCB Power Relay - G2RG

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## ■ Contact Ratings

Note: P level: $\lambda$ 60 = 0.1 x 10-6/operation	noifishedo\0-01 x f.0 = 00i, ilevel 9 :e:			
Failure rate (P level, reference value) (See note.)	5 VDC, 10 mA			
Maximum switching current	A 8			
Maximum switching voltage	380 VAC, 125 VDC			
Rated carry current	A 8			
psol bateA	3 A A at 250 VAC			
Contact material	nln2gA			
Contact mechanism	Single			
beod	Resistive load			

## ■ Characteristics

Ambient operating	humidity	%58 of %2
Ambient operating	temperature	-40 √°C (with no icing or condensation)
	Electrical	10,000 operations (at 1,800 operations/hr under rated load)
Endurance	Mechanical	(in/anoistrago 000,81 1s) .nim anoistrago 000,000,1
	Malfunction	besignene nergised
Shock resistance	Destruction	<sup>2</sup> s/m 000, ľ
resistance	Malfunction	(ebutiliqms elduob mm 3.1) abutiliqms elgnis mm 27.0 , zH01 ot 53 ot 01
Vibration	Destruction	(ebutiligms elduob mm 3.1) abutiligms elgnis mm 27.0, 2H01 ot 33 ot 01
mpulse withstand	voltage	10 kV (1.2 x 50µs)
Dielectric Strength		5,000 VAC, 50/60Hz for 1 min between coil and contacts 3,000 VAC, 50/60Hz for 1 min between contacts of different polarity 1,000 VAC, 50/50 Hz for 1 min between contacts of the same polarity
Tracking Resistanc	(ITO 9	Σ <sub>2</sub> 0 Λ
Distance	Clearance (Typ)	mm 8.8
Insulation	Creepage (Typ)	mm 0.0t
bnstantiw ealuqml	voltage	10KV x50µs
nstsiseA noitsluenl	ce (See note 2)	1,000 M2 min (at 500VDC
1requency	Electrical	1,800 operations/hr (under rated load)
Max. switching	Mechanical	18,000 operations/hr
Insulation resistano	(.6 eton ee2) ea	7)000 Ms nim 2M 000,1
Release time		5 max.
Operate time		15ms max.
Contact resistance	(See note 2.)	.xsm 900 ms.

PS.71 xorqqA

Note 1. The above values are initial values (at an ambient temperature of 23°C).

2. Measurement conditions: 5 VDC, 1 A voltage-drop method.

3. Measurement conditions: Measure with a 500 VDC megohmmeter at the same places as the dielectric strength.

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CAT. No. K142-E2-02A-X

Differences with the G2R

■ Correct Use

Precautions -

G2RG-2A4

- snoisnamia

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

Power consumption (Wm)	mumixsM egstlov	Drop-out Voltage	Pick-up voltage	Coil resistance (Ω)	bətsA tnərruc (Am)	(V) əgsil	ov betsA
400	190% at 23°C	5% of max.	.xsm fo %37	63	08	DC2	TOAS
				390	5.55	DC15	
				1440	7.91	DC54	
500				125	07	DC2	ON-TS92
				720	7.91	DC15	
				2880	6.8	DC54	
		.%(	a tolerance of 10	Ired at 23°C with	stance are measu	rent and coil resis	Note: Rated cur

# ■ Coil Ratings

## Specifications -

Mone: SPDT :A

2. Contact Form

1: 1 pole

1. Number of Poles

- Rated Coil Voltage

3. Rated Coil Voltage

2' 15' 54ΛDC

G2G-  $\frac{1}{\Box} \frac{5}{\Box}$ -EN  $\frac{3}{\Box}$  ADC

lote: When ordering, add the rated coil voltage to the model

Examples: G5Q 12VDC

Bated Coil Voltar

,	Part numbe	Enclosure rating	cstion	Classifi
	G2Q-1A-EU	betneV	ON-TS98	Single contact, Class F coil
	G2Q-1A4-EU	Sealed		
	Œ2Ğ-1-EN	berneV	TOAS	
	@2Ğ-1∢-EN	Sealed		
		θk	dmun labom adt ot apstlov liop be	Note: When ordering add the rate

To Order: Select the part number and add the desired coil voltage rating (e.g. G5Q-14-EU-DC12)

### Ordering Information –

- Tracking resistance: CTI > 250.
- $\blacksquare$  Ideal for appliance and HVAC controls.
  - - UL, CSA and EN approvals.
    - UL class F coil insulation.
- .Wm 001 :TDP: ,Wm 002 :ON-TSPS)
- Low coil power consumption
- 8,000 V between the coil and contacts.
- Ensures a withstand impulse voltage of contacts.
- ON and no gnitching on the NO and Inching on the NO between coil and contacts.
- Compact single pole relay with high isolation
  - - ROHS compliant.

(The coil has no polarity.)

Terminal Arrangement/ Internal Connections (Bottom View)

## Compact, High Isolation Relay

### PCB Power Relay - G5Q-EU



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PCB Power Relay - G2RG

Confirm that correct operation is possible in the actual operating conditions before using in applications.

The GRRG-2A4 has the same terminal arrangement as the G2R-2A4 but the switch capacity and electrical endurance are different.

(WeiV mottod) PCB Mounting Holes

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