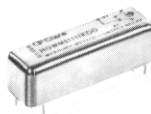


Clare

Other High Performance Relays



Engineering Specifications	HGWM	HGJM	HGRM
Contact Form	1C, 2C, 1D, 2D	1C, 2C	1C, 2C, 1D, 2D
Contact Rating			
Maximum switching power	100VA	100VA	100VA
Maximum switching voltage	500VDC or Peak VAC	500VDC or Peak VAC	500VDC or Peak VAC
Maximum switching current	2A	2A	2A
Maximum carry current	5A	5A	5A
Contact Resistance, Initial	30 milliohms max	30 milliohms max	30 milliohms max
Contact Material	Mercury to Mercury	Mercury to Mercury	Mercury to Mercury
Life Expectancy			
Signal level loads (ref 10VDC, 10mA)	2000 x 10 ⁶	2000 x 10 ⁶	2000 x 10 ⁶
Timing (at nominal VDC, 10Hz drive, 50% duty cycle with diode suppression)			
Operate time, maximum	1.25ms	1.25ms	2.50ms
Release time, maximum	1.25ms	1.25ms	2.50ms
Bounce time	none	none	none
Breakdown Voltage			
Coil to contact	1000Vrms 1400VDC	1000Vrms 1400VDC	1000Vrms 1400VDC
Across contacts	1000Vrms 1400VDC	1000Vrms 1400VDC	1000Vrms 1400VDC
Insulation Resistance (Ohms)	10 ⁹	10 ⁹	10 ⁹
Capacitance			
Across open contacts	5.0pf max	4.0pf max	3.0pf max
Open contact to coil	12.0pf max	10.0pf max	9.0pf max
Environmental			
Temperature			
Total internal relay (storage)	-40°C to +105°C	-40°C to +105°C	-40°C to +105°C
Operating	-38.8°C to +85°C	-38.8°C to +85°C	-38.8°C to +85°C
Shock resistance	30g, 11 ± 1ms, 1/2 Sine Wave	30g, 11 ± 1ms, 1/2 Sine Wave	30g, 11 ± 1ms, 1/2 Sine Wave
Vibration resistance	5g, 10 to 500Hz	5g, 10 to 500Hz	5g, 10 to 500Hz

Features:

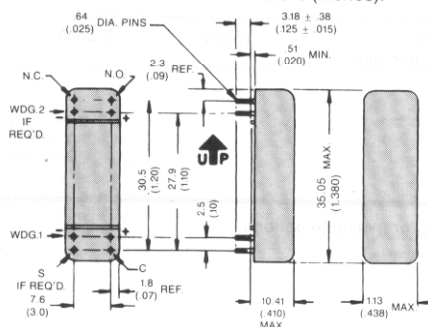
- Maintenance-free long life, for billions of operations.
- Stable contact resistance; ± 2 milliohms variance from original measurement throughout life.
- Electrostatic shielded, latching, and Common Open Time (COT) versions available.
- Versatile contacts; will switch microvolts, nanoampere loads to 2A or 500V loads.
- Fastest high performance wetted contact relays available (1.25ms max timing).
- No contact bounce, no interruption of signal or processing of false signals.
- Excellent input to output isolation.
- Standard nominal coil voltages include 5, 12, 24, and 48VDC.

All characteristics at 25°C.

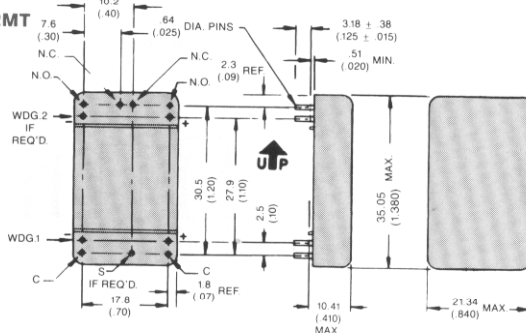
Mechanical Dimensions

All dimensions are measured in millimeters (inches).

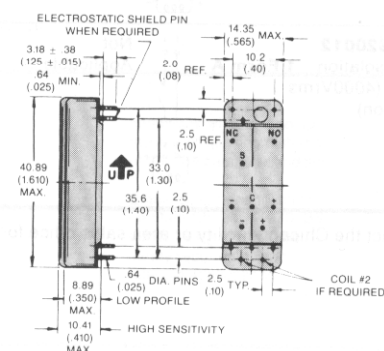
HGWM



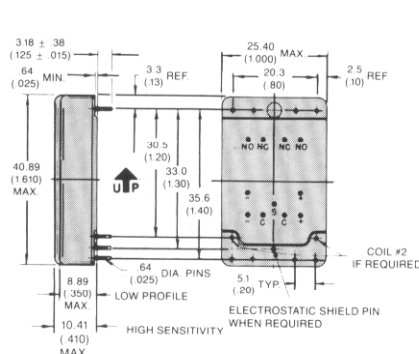
HGW2MT



HGJM HGRM



HGJ2MT HGR2MT



Clare Relays

Part Number	Schematic Contact Form (Bottom View)	Nominal Voltage (VDC)	Coil Resistance (Ohms +/- 10%)	Nominal Input Power (mW)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Maximum Voltage (VDC)	Options
1 Form C								
HGJM51111K00*		5	125	200	2.9	0.61	15.0	•Electrostatic shield •Bistable latching •Low profile (.350 height) •Insulation resistance; 10¹¹
HGJM51111P00*		12	685	210	7.1	1.50	35.0	
HGJM51111T00*		24	2650	217	14.0	3.00	68.0	
HGJM51111W00		48	9850	230	29.0	6.00	125.0	
2 Form C								
HGJ2MT54211G00*		5	55	455	2.6	0.55	14.0	•Low profile (.350 height) •Insulation resistance; 10¹¹
HGJ2MT54211L00*		12	370	389	6.7	1.40	36.0	
HGJ2MT54211P00*		24	1370	420	13.0	2.70	69.0	
With shield, and COT								
1 Form C								
HGRM51111J00		5	70	357	1.8	0.44	11.0	•Bistable latching •Form D contacts
HGRM51111N00		12	435	331	4.6	1.10	28.0	
HGRM51111R00		24	1750	329	8.8	2.20	55.0	
HGRM51111V00		48	6100	378	17.0	4.30	103.0	
2 Form C								
HGR2MT51111F00		5	37	675	2.0	0.50	11.0	•Electrostatic shield •Form D contacts
HGR2MT51111K00		12	250	576	5.0	1.25	30.0	
HGR2MT51111N00		24	870	662	10.0	2.50	56.0	
1 Form C								
HGWM51111K00*		5	117	214	2.9	0.52	11.0	•Electrostatic shield •Bistable latching •Form D contacts •Insulation resistance; 10¹¹
HGWM51111P00*		12	720	200	7.0	1.30	27.0	
HGWM51111T00*		24	2730	211	14.0	2.60	52.0	
HGWM51111W00		48	10000	230	28.0	5.20	100.0	
2 Form C								
HGW2MT54111G00		5	56	446	2.9	0.52	11.0	•Electrostatic shield •Form D contacts •Insulation resistance; 10¹¹
HGW2MT54111L00		12	392	367	7.0	1.30	28.0	
HGW2MT54111P00		24	1440	400	14.0	2.60	54.0	
With COT								

* Designates standard stocking item for authorized Clare distributors.

Contact the Chicago facility or area sales office for part numbering scheme for available options.