

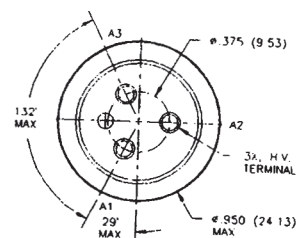
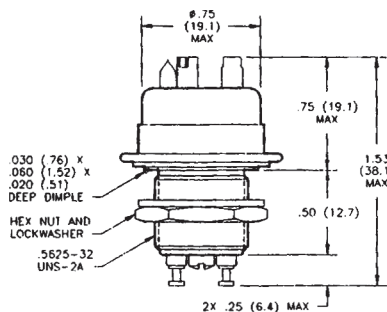
HC Series — 3.5 kV Relays

HC-1
No Load Switching

HC-3
Make & Break Load Switching

Product Facts for HC-1

- Widely used for RF applications
- Vacuum dielectric for low leakage current applications
- Copper contacts for high current capability
- Not designed for power switching
- Meets requirements of MIL-R-83725
- QPL version available, M83725/5-001



Product Facts for HC-3

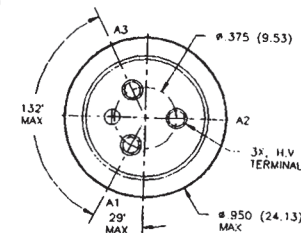
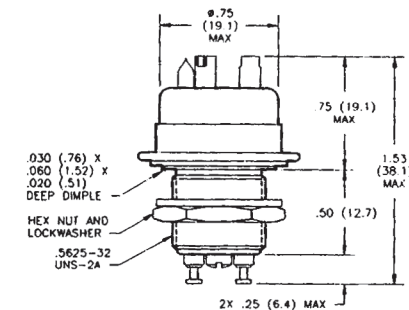
- Tungsten contacts for long life when power switching
- Vacuum dielectric for power switching low current loads

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.

HC-5
Make Only Load Switching

Product Facts for HC-5

- Gas-filled for "make only" power switching
- SF-6 gas-filled for capacitive discharge applications
- Tungsten contacts for long life when power switching



Product Specifications for HC-1, HC-3 and HC-5

Contact Arrangement — SPDT

Contact Form — C

Test Voltage, DC or 60 Hz (Peak) — 5 kV

Rated Operating Voltage (Peak) —

DC or 60 Hz — 3.5 kV

2.5 MHz — 2.5 kV

16 MHz — 2 kV

32 MHz — 1.5 kV

Continuous Carry Current, Max. —

DC or 60 Hz — HC-1 — 25 A

HC-3 — 18 A

HC-5 — 8 A

2.5 MHz — HC-1 — 14 A

16 MHz — HC-1 — 9 A

32 MHz — HC-1 — 7 A

Coil Hi-Pot (Vrms, 60 Hz) — 500 A

Contact Capacitance —

Between Open Contacts —

HC-1 — 2 pF

Open Contacts to Ground —
HC-1 — 2.5 pF

Contact Resistance, Max. —

HC-1 — 0.01 ohm

HC-3 — 0.02 ohm

HC-5 — 0.50 ohm*

Operate Time, Max. — 6 ms

Release Time, Max. — 6 ms

Shock, 11ms, 1/2 Sine (Peak) —
50 g

Vibration —

Peak — 10 g (55 to 2000 Hz)

Operating Ambient Temperature

Range — -55°C to +125°C

Mechanical Life —

HC-1, HC-3 — 2 million cycles

HC-5 — 1 million cycles

Weight, Nominal —

28.35 g (1.0 oz.)

Note:

*Contact resistance for gas-filled relays is measured at 28 Vdc, 1 Amp

Coil Data

Nominal Volts DC	12 Vdc	26.5 Vdc	115 Vdc
Pickup, Max.	8 Vdc	16 Vdc	80 Vdc
Dropout	.5-5 Vdc	1-10 Vdc	5-50 Vdc
Coil Resistance (±10%)	80 Ω	335 Ω	6000 Ω

Ratings listed are for 25°C, sea level conditions

Ordering Information

Sample Part Number ►

Series:

Model:

1

3

5

Coil Voltage:

Blank = 26.5 Vdc

/12Vdc = 12 Vdc

/115Vdc = 115 Vdc

HC- 1 /12Vdc

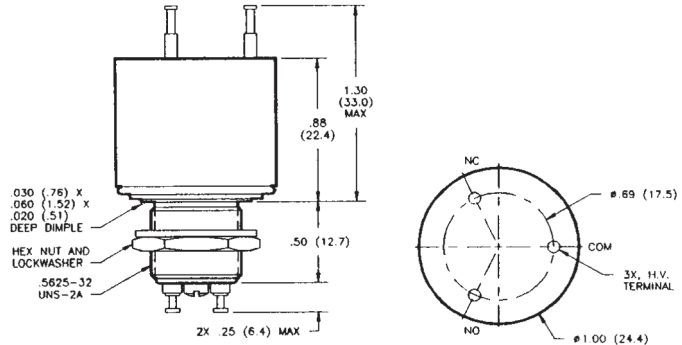
HC Series — 8 kV Relays

HC-2
No Load Switching

HC-4
Make & Break Load Switching

Product Facts for HC-2

- Vacuum dielectric and copper contacts for high current carry rating of 25 Amps
- Not designed for power switching
- Stable, low contact resistance
- Meets requirements of MIL-R-83725



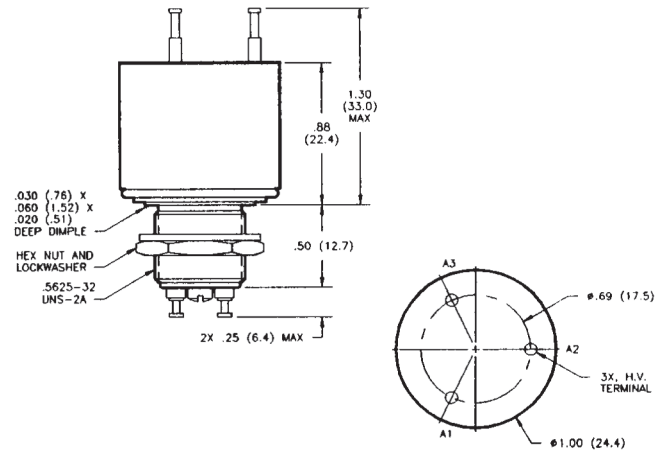
Product Facts for HC-4

- Tungsten contacts for long life in power switching applications
- Meets requirements of MIL-R-83725
- Vacuum dielectric for arc suppression when making or breaking a load

HC-6
Make Only Load Switching

Product Facts for HC-6

- Tungsten contacts for switching high in-rush loads
- SF-6 gas-filled for capacitive discharge applications
- Suitable for ESD testing applications
- Tungsten contacts for long life in power switching applications



Product Specifications for HC-2, HC-4 and HC-6

Contact Arrangement — SPDT

Contact Form — C

Test Voltage, DC or 60 Hz (Peak) — 10 kV

Rated Operating Voltage (Peak) — DC or 60 Hz — 8 kV

Continuous Carry Current, Max. — DC or 60 Hz — HC-2 — 25 A RMS
HC-4 — 15 A RMS
HC-6 — 8 A RMS

Coil Hi-Pot (Vrms, 60 Hz) — 500 A RMS

Contact Capacitance —

Between Open Contacts — N/A

Open Contacts to Ground — N/A

Contact Resistance, Max. —

HC-2 — 0.01 ohm

HC-4 — 0.02 ohm

HC-6 — 0.5 ohm*

Operate Time, Max. — 6 ms

Release Time, Max. — 6 ms

Shock, 11ms, 1/2 Sine (Peak) — 50 g

Vibration —

Peak — 10 g (55 to 2000 Hz)

Operating Ambient Temperature Range — -55°C to +125°C

Mechanical Life —

HC-2 and HC-4 — 2 million cycles

HC-6 — 1 million cycle

Weight, Nominal —

39.69 g (1.4 oz.)

*Contact resistance for gas-filled relays is measured at 28 Vdc, 1 Amp

Coil Data

Nominal Volts DC	12 Vdc	26.5 Vdc	115 Vdc
Pickup, Max.	8 Vdc	16 Vdc	80 Vdc
Dropout	.5-5 Vdc	1-10 Vdc	5-50 Vdc
Coil Resistance (±10%)	80 Ω	335 Ω	6000 Ω

Ratings listed are for 25°C, sea level conditions

Ordering Information

Sample Part Number ►

Series: _____

Model: _____

2

4

6

Coil Voltage: _____

Blank = 26.5 Vdc

/12Vdc = 12 Vdc

/115Vdc = 115 Vdc

HC- 6 /12Vdc