

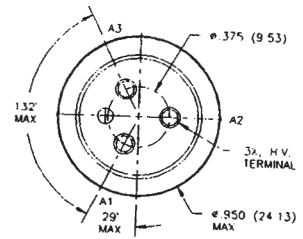
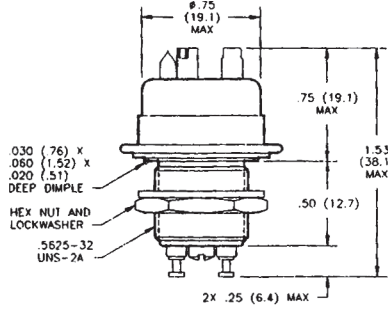
HC Series — 3.5 kV Relays

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

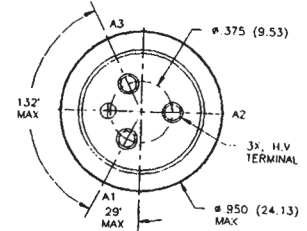
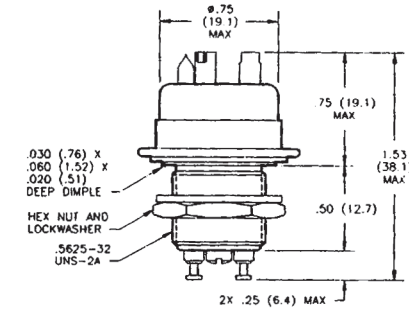
- Tungsten contacts for long life when power switching
- Vacuum dielectric for power switching low current loads

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

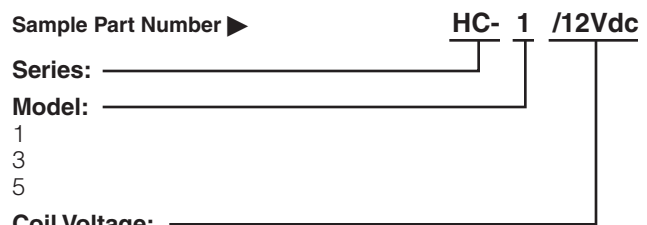
Coil Data

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 ($\pm 10\%$)	80 Ω	335 Ω	6000 Ω

Ratings listed are for 25°C, sea level conditions

Ordering Information

Sample Part Number ►



Coil Voltage: Blank = 26.5 Vdc
/12Vdc = 12 Vdc
/115Vdc = 115 Vdc