

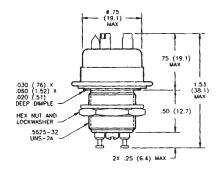
HC Series — 3.5 kV Relays

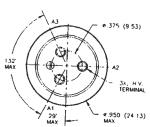
HC-1 No Load Switching HC-3 Make & Break Load Switching

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







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

 ${\bf Contact \ Arrangement -- \ SPDT}$

 $\mathbf{Contact}\;\mathbf{Form} - \mathbf{C}$

Test Voltage, DC or 60 Hz (Peak) — $5\,\mathrm{kV}$

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

Product Facts for HC-3

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



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 -

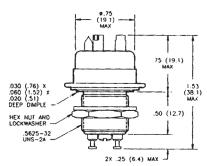
HC-1, HC-3 — 2 million cycles HC-5 — 1 million cycles

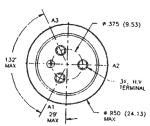
Weight, Nominal —

28.35 g (1.0 oz.)

Note:

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



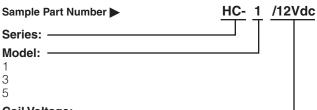


Coil Data

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	Ω 0000

Ratings listed are for 25°C, sea level conditions

Ordering Information



Coil Voltage: — Blank = 26.5 Vdc

/12Vdc = 12 Vdc /115Vdc = 115 Vdc

www.te.com