

**Kilovac HC-1** *No Load Switching*

**Kilovac HC-3** *Make & Break Load Switching*



**Features:**

**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

**HC-3**

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

**Kilovac HC-5** *Make Only Load Switching*



**Features:**

- Gas-filled for "make only" power switching
- SF-6 gas filled for capacitive discharge applications

PRODUCT SPECIFICATIONS				
Part Number	Unit	HC-1	HC-3	HC-5
Contact Arrangement .....		SPDT	SPDT	SPDT
Contact Form .....		C	C	C
Test Voltage (dc or 60Hz) .....	kV Peak	5	5	5
Rated Operating Voltage .....	kV Peak			
dc or 60 Hz .....		3.5	3.5	3.5
2.5 MHz .....		2.5	-	-
16 MHz .....		2	-	-
32 MHz .....		1.5	-	-
Continuous Carry Current , Maximum .....	Amps			
dc or 60 Hz .....		25	18	8
2.5 MHz .....		14	-	-
16 MHz .....		9	-	-
32 MHz .....		7	-	-
Coil Hi-Pot (V RMS, 60 Hz) .....		500	500	500
Contact Capacitance .....	pF			
Between Open Contacts .....		2	-	-
Open Contacts to Ground .....		2.5	-	-
Contact Resistance, Maximum .....	Ohms	0.01	0.02	0.50*
Operate Time, Maximum .....	ms	6	6	6
Release Time, Maximum .....	ms	6	6	6
Shock, 11 ms 1/2 Sine .....	G's Peak	50	50	50
Vibration, 10 G's Peak .....	Hz	55-2000	55-2000	55-2000
Operating Ambient Temperature Range .....	°C	-55 to +125	-55 to +125	-55 to +125
Mechanical Life (Operations x 10 <sup>6</sup> ) .....	cycles	2	2	1
Weight, Nominal .....	oz	1	1	1

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

COIL DATA			
Nominal, Volts dc	12	26.5	115
Pickup, Volts dc, Maximum	8	16	80
Drop-Out, Volts dc	.5 - 5	1 - 10	5 - 50
Coil Resistance (Ohms ±10%)	80	335	6000

Ratings listed are for 25°C, sea level conditions

**PART NUMBER SELECTION**

Sample Part No. **HC-**

Model

Coil Voltage

Blank = 26.5Vdc  
 /12Vdc = 12Vdc  
 /115Vdc = 115Vdc