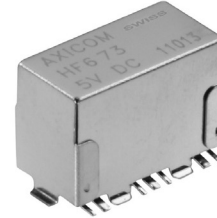


HF6 Relay

- Y-Design
- Frequency range DC to 6GHz
- Impedance 50Ω
- Small dimensions (16x7.6x10mm)
- 1 form C contact (1 changeover contact)
- Immersion cleanable
- Low power consumption ($\leq 140\text{mW}$)

Typical applications

Measurement and test equipment ATE, wireless base stations and antennas, wireless infrastructure, RF power amplifier



Contact Data

Contact arrangement	1 form C, 1 CO
Max. switching voltage	220VDC, 250VAC
Rated current	2A
Limiting continuous current	2A
Switching power	60W, 62.5VA, 50W (2.5GHz)
Max. continuous RF-power at 20°C.	50W (2.5GHz)
Contact material	Ag, Au covered
Minimum switching voltage	100μV
Initial contact resistance	<100mΩ at 10mA/30mV
Operate time	typ. 3ms, max. 5ms
Release time	
without diode in parallel	typ. 2ms, max. 5ms
with diode in parallel	typ. 4ms, max. 6ms
Bounce time max.	typ. 1ms, max. 3ms
Duration of set/reset pulse min.	20ms
Mechanical endurance	10 ⁷ operations

Coil Data

Coil voltage range	3 to 24VDC
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Coil versions, 50Ω version, monostable

Coil code	Rated voltage VDC	Operate voltage VDC _{min.}	Limiting voltage VDC _{max.}	Release voltage VDC _{min.}	Coil resistance Ω±10%	Rated coil power mW
51	3	2.25	6.50	0.30	64	140
52	4.5	3.38	9.80	0.45	145	140
53	5	3.75	10.90	0.50	178	140
54	6	4.50	13.00	0.60	257	140
55	9	6.75	19.60	0.90	574	140
56	12	9.00	26.10	1.20	1028	140
57	24	18.00	52.30	2.40	4114	140

All figures are given for coil without pre-energization, at ambient temperature +23°C.

Contact Data (continued)

Coil versions, bistable

Coil code	Rated voltage VDC	Set voltage VDC	Limiting voltage VDC	Reset voltage VDC	Coil resistance Ω±10%	Rated coil power mW
50Ω version, Bistable, 1 coil						
71	3	2.25	9.20	-2.25	128	70
72	4.5	3.38	13.85	-3.38	289	70
73	5	3.75	15.30	-3.75	357	70
74	6	4.50	18.50	-4.50	514	70
75	9	6.75	27.70	-6.75	1157	70
76	12	9.00	37.00	-9.00	2057	70
77	24	18.00	74.00	-18.00	8228	70

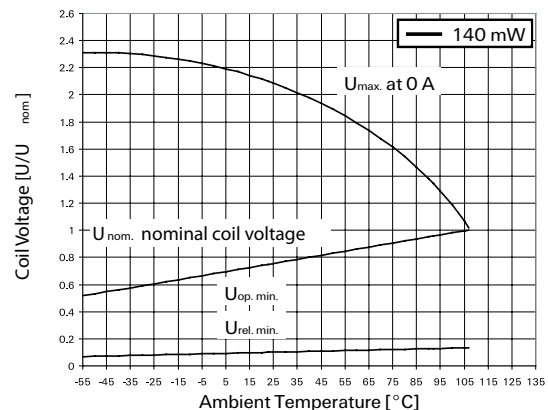
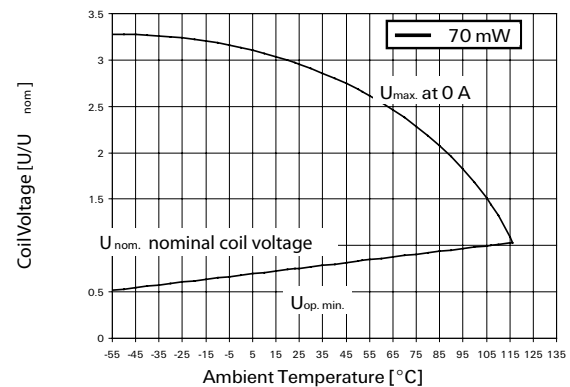
Contact Data (continued)

50Ω version, bistable, 2 coils

91	3	2.25	6.50	2.25	64	140
92	4.5	3.38	9.80	3.38	145	140
93	5	3.75	10.90	3.75	178	140
94	6	4.50	13.00	4.50	257	140
95	9	6.75	19.60	6.75	574	140
96	12	9.00	26.10	9.00	1028	140
97	24	18.00	52.30	18.00	2880	200

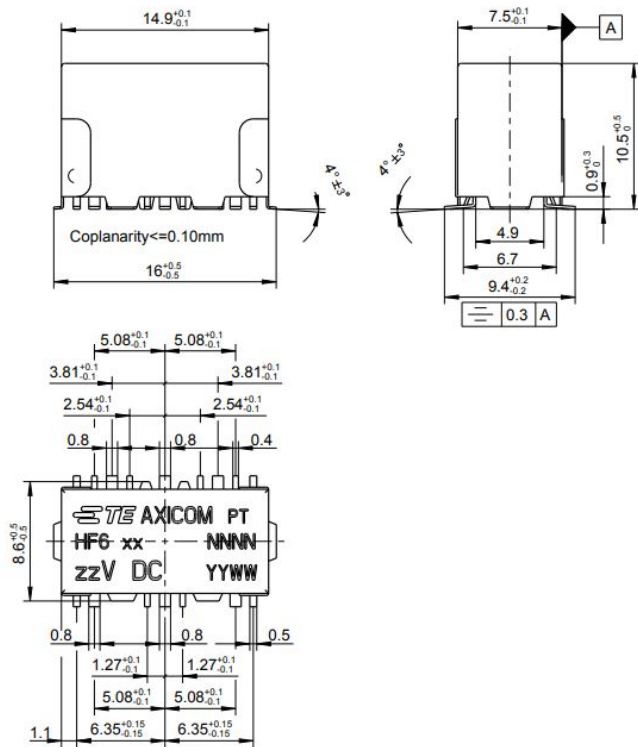
All figures are given for coil without pre-energization, at ambient temperature +23°C.

Coil operating Range

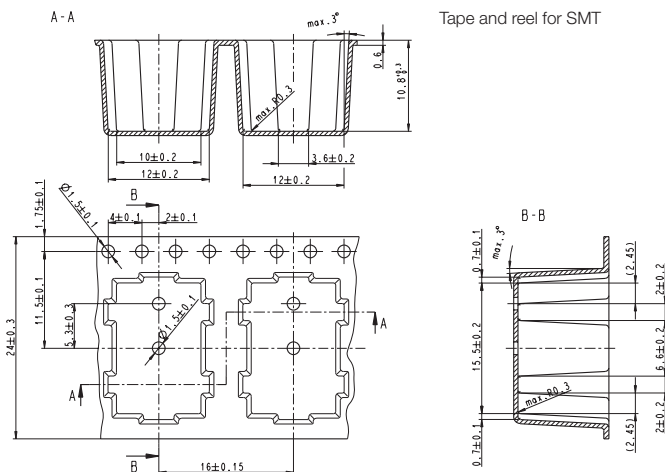


HF6 Relay (Continued)

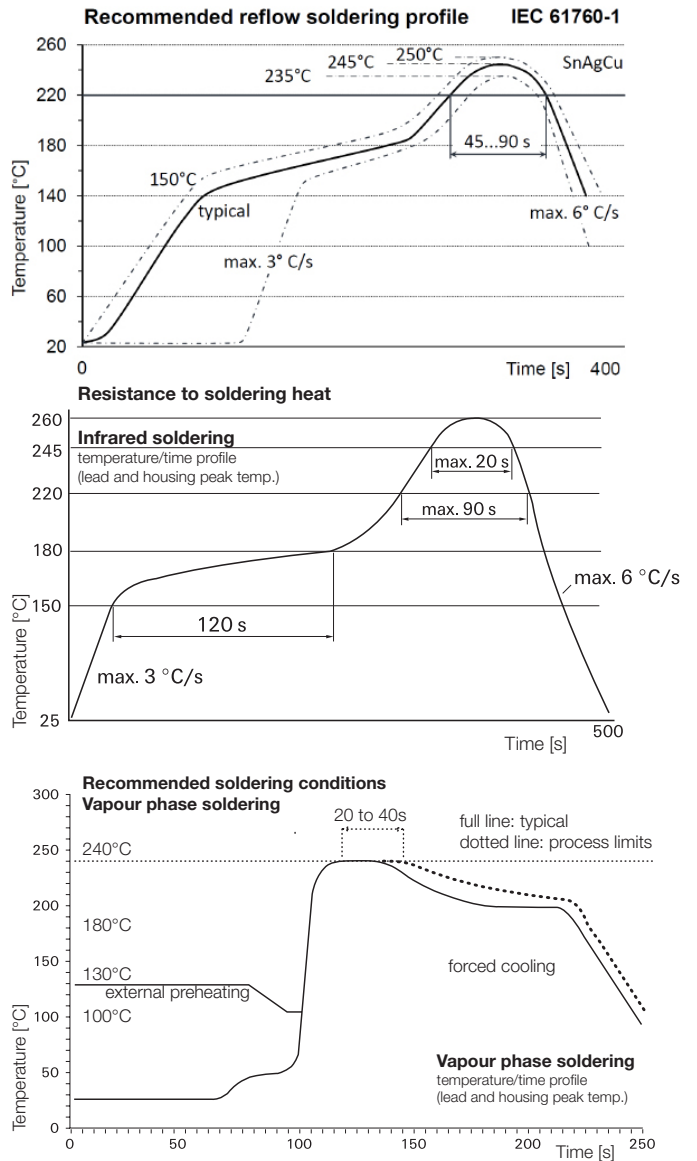
Dimensions



Packing



Processing



HF6 Relay (Continued)

Product code structure

Typical product code

HF6
53

Type

HF6 High Frequency Relays HF6 Series
1 form C, 1 CO

Coil

Coil code: please refer to coil versions table
Performance type
5x 50 Ohm version, monostable 1 coil
7x 50 Ohm version, bistable 1 coil
9x 50 Ohm version, bistable 2 coils

Product code	Arrangement	Version	Coil	Coil type	Part number
HF6 51	1 form C (1 CO)	50ohm	3VDC	Monostable	1462052-1
HF6 53			5VDC		1462052-3
HF6 56			12VDC		1462052-6
HF6 73	1 form C (1 CO)	50ohm	5VDC	Bistable 1 coil	1-1462052-0
HF6 93	1 form C (1 CO)	50ohm	5VDC	Bistable 2 coils	1-1462052-7
HF6 96			12VDC		2-1462052-0

This list represents the most common types and does not show all variants covered by this data sheet.
Other types on request