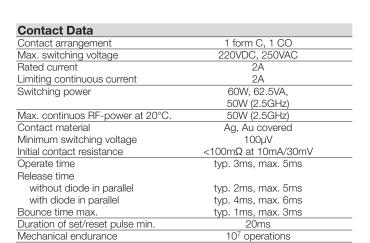


## **HF6 Relay**

- **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 (≤140mW)



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



Coil Data	
Coil voltage range	3 to 24VDC

Coil ve	rsions,	50Ω	version,	monostable
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Coil	Rated	Operate	Limiting	Release	Coil	Rated coil
code	voltage	voltage	voltage	voltage	resistance	power
	VDC	$VDC_{min.}$	VDC <sub>max.</sub>	$VDC_{min.}$	Ω±10%	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.

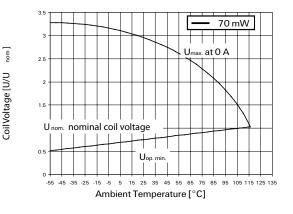
Contact Data (continued)									
Coil versions, bistable									
Coil	Rated	Set	Limiting	Reset	Coil	Rated coil			
code	voltage	voltage	voltage	voltage	resistance	power			
	VDC	VDC	VDC	VDC	Ω±10%	mW			
50Ω ver	sion, Bista	ble, 1 coil							
71	3	2.25	9.20	-2.25	128	70			
72	4.5	3.38	13.85	-3.38	289	70			
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			

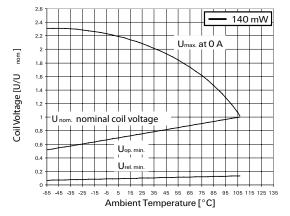


Contact Data (continued)									
50Ω version, bistable, 2 coils									
91	3	2.25	6.50	2.25	64	140			
92	4.5	3.38	9.80	3.38	145	140			
93	5	3.75	10.90	3.75	178	140			
94	6	4.50	13.00	4.50	257	140			
95	9	6.75	19.60	6.75	574	140			
96	12	9.00	26.10	9.00	1028	140			
97	24	18.00	52.30	18.00	2880	200			

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

## **Coil operating Range**







## HF6 Relay (Continued)

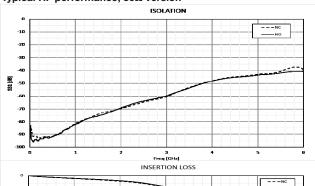
Insulation Data	
Initial dielectric strength	
between open contacts	600Vrms
between contact and coil	1000Vrms
Initial surge withstand voltage	
between open contacts	1000V
between contact and coil	1500V

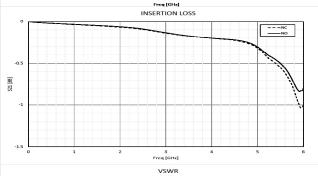
### **RF Data**

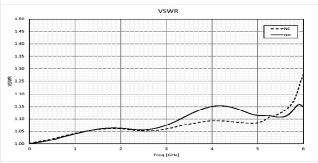
Isolation at 900MHz/3GHz/6GHz Insertion loss at 900MHz/3GHz/6GHz Voltage standing wave ratio (VSWR) 80dB/60dB/30dB 0.05dB/0.15dB/0.80dB

at 900MHz/3GHz/6GHz 1.05/1.10/1.40

### Typical RF performance, 50Ω version







#### **Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature -55°C to +85°C Thermal resistance <165K/W

Category of environmental protection

IEC 61810 RT III - wash tight
Degree of protection, IEC 60529 IP 67, immersion cleanable
Vibration resistance (functional) 35g, 10 to 1000Hz

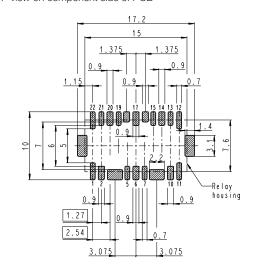
Shock resistance (functional), half sinus 11ms 50g
Shock resistance (destructive), half sinus 0.5ms 150g
Terminal type SMT
Weight max. 3g

Resistance to soldering heat Peak value SMT IEC 60068-2-58 250°C/10s Moisture sensitive level, JEDEC J-Std-020D MSL3

Ultrasonic cleaning not recommended
Packaging/unit, SMT reel/400 pcs., box/400 pcs. or 2000 pcs.

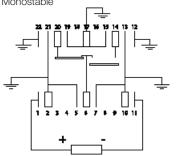
## **PCB** layout

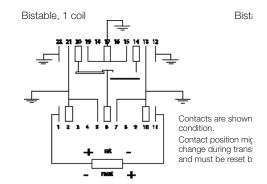
TOP view on component side of PCB

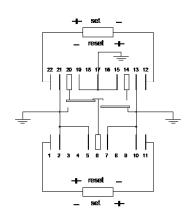


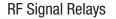
### Terminal assignment

TOP view on component side of PCB Monostable







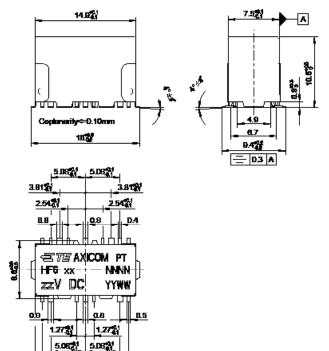




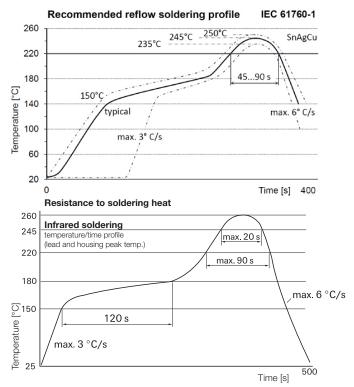


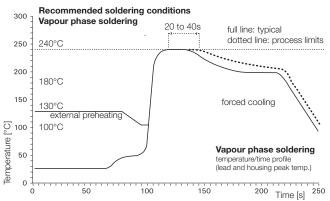
## **HF6 Relay** (Continued)

### **Dimensions**



#### **Processing**

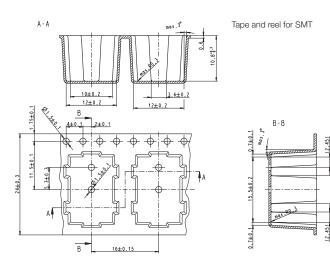


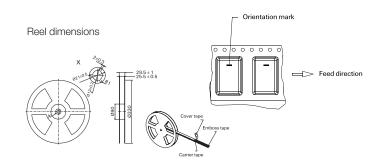


## **Packing**

6.35

6.35











## **HF6 Relay** (Continued)

Prod	uct co	ode structure Typical prod	uct code   HF	<del>-</del> 6	53
Туре					
	HF6	High Frequency Relays HF6 Series			
		1 form C, 1 CO			
Coil					
	Coil co	code: please refer to coil versions table			
		Performance type			
		5x 50 Ohm version, monostable 1coil			
		7x 50 Ohm version, bistable 1coil			
		9x 50 Ohm version, bistable 2coils			

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	1		12VDC		1462052-6
HF6-73	1. farm 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

## 单击下面可查看定价,库存,交付和生命周期等信息

# >>TE Connectivity(泰科)