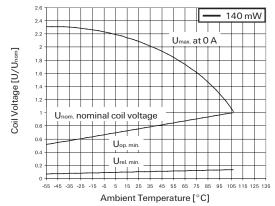


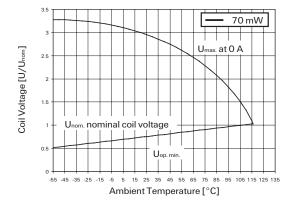
## AXICOM



## **HF3 Relay** (Continued)

## **Coil operating Range**





Insulation Data	50Ω version $75Ω$ version		
Initial dielectric strength			
between open contacts	600V <sub>rms</sub>		
between contact and coil	1000V <sub>rms</sub>		
Initial surge withstand voltage			
between open contacts	1000V		
between contact and coil	1500V		

RF Data		
Isolation		
at 100MHz/900MHz	80dB/72dB	80dB/72dB
at 3GHz	45dB	40dB
Insertion loss		
at 100MHz/900MHz	0.03dB/0.12dB	0.03dB/0.12dB
at 3GHz	0.35dB	0.40dB
Voltage standing wave ratio (VSWR)		
at 100MHz/900MHz/3GHz	1.05/1.20/1.20	1.05/1.20/1.40

### **Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="https://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>

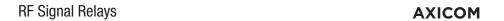
Ambient temperature -55°C to +85°C
Thermal resistance <165K/W
Category of environmental protection

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. 2.5g
Resistance to soldering heat SMT Peak Value
IEC 60068-2-58 265°C

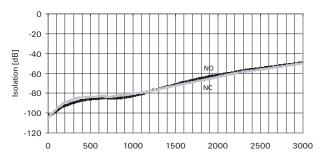
Moisture sensitive level, JEDEC J-Std-020D MSL3
Ultrasonic cleaning not recommended

Packaging/unit reel/400 pcs., box/400 or 2000 pcs.



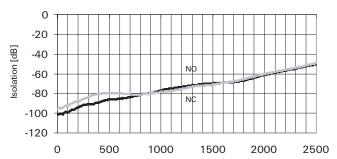
# HF3 Relay (Continued)

### Typical RF performance, $50\Omega$ version

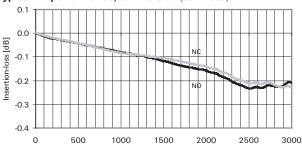


**PRODUCTS** 

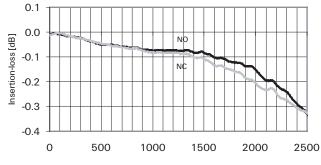
### Typical RF performance, 75Ω version

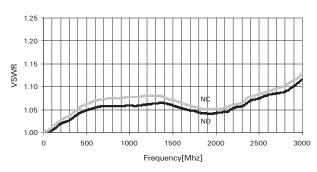


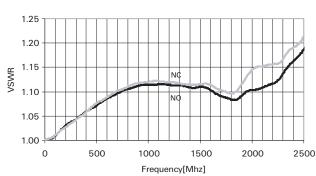
Typical RF performance, 50Ω version (continued)



Typical RF performance, 75Ω version (continued)





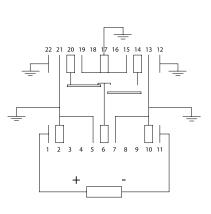


Bistable, 2 coils

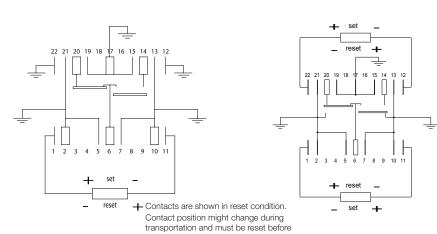
### Terminal assignment

TOP view on component side of PCB





Bistable, 1 coil



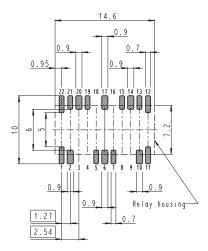


## **HF3 Relay** (Continued)

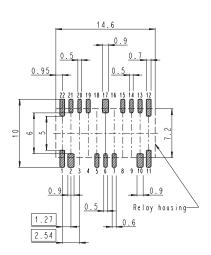
#### **PCB** layout

TOP view on component side of PCB

#### 50Ω version

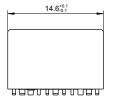


### 75Ω version



#### **Dimensions**

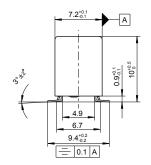
50Ω version



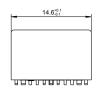
Coplanarity<=0.10mm

5.08+0.1

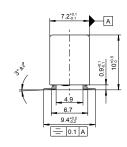
5.08+0.1

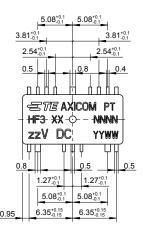


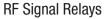
75Ω version



Coplanarity<=0.10mm







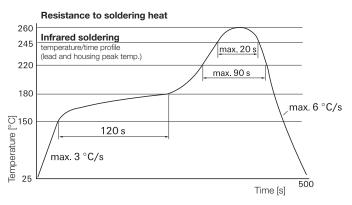
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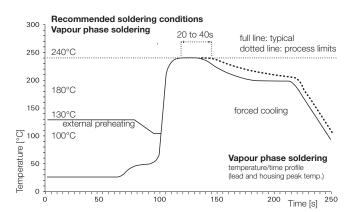


## **HF3 Relay** (Continued)

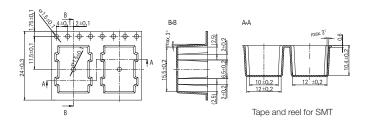
### **Processing**

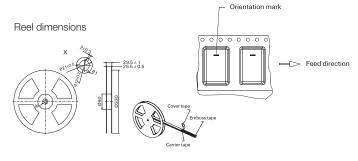
#### Recommended reflow soldering profile IEC 61760-1 260 SnAgCu 220 180 Temperature [°C] 140 typical max. 6° C/s 100 max. 3° C/s 60 20 0 Time [s] 400

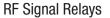




## **Packing**







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## **HF3 Relay** (Continued)

Product code structure

Typical product code HF3 53

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**HF3** Signal Relays HF3 Series

1 form C, 1 CO

Coil

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Coil code: please refer to coil versions table

Performance type

Product code	Arrangement	Version	Coil	Coil type	Part number
HF3 51	1 form C (1 CO)	50ohm	3VDC	Monostable	1462051-1
HF3 52			4.5VDC	1	1-1462051-6
HF3 53			5VDC		1462051-2
HF3 54			6VDC		1-1462051-7
HF3 55			9VDC		1462051-3
HF3 56			12VDC		1462051-4
HF3 57			24VDC		1462051-5
HF3 71	1 form C (1 CO)	50ohm	3VDC	Bistable 1 coil	1462051-6
HF3 72			4.5VDC		1-1462051-8
HF3 73			5VDC		1462051-7
HF3 76			12VDC		1462051-9
HF3 91	1 form C (1 CO)	50ohm	3VDC	Bistable 2 coils	1-1462051-1
HF3 92			4.5VDC		2-1462051-0
HF3 93			5VDC		1-1462051-2
HF3 95			9VDC	1	1-1462051-3
HF3 96			12VDC		1-1462051-4
HF3 97			24VDC		1-1462051-5
HF3 01	1 form C (1 CO)	75ohm	3VDC	Monostable	1462050-1
HF3 02			4.5VDC		1-1462050-6
HF3 03			5VDC		1462050-2
HF3 06			12VDC		1462050-4
HF3 07			24VDC		1462050-5
HF3 21	1 form C (1 CO)	75ohm	3VDC	Bistable 1 coil	1462050-6
HF3 23			5VDC		1462050-7
HF3 26			12VDC		1462050-9
HF3 41	1 form C (1 CO)	75ohm	3VDC	Bistable 2 coils	1-1462050-1
HF3 43			5VDC		1-1462050-2
HF3 46			12VDC		1-1462050-4
HF3 47			24VDC		1-1462050-5

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