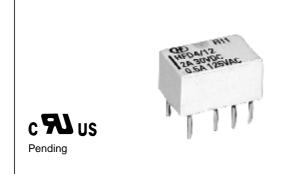
HFD4



SUBMINIATURE SIGNAL RELAY

Features

- Offers excellent board space savings
- Surge withstand voltage up to 2500V, meets FCC Part 68 and Telecordia
- Meets EN60950/EN41003
- SMT and DIP types available
- High contact capacity 2A 30VDC
- Low power consumption
- Single side stable and latching type available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (10.0 x 6.5 x 5.4) mm

CONTACT DATA

Contact arrangement

Max. switching current

Max. switching voltage

Max. switching power

Min. applicable load

Electrical endurance

00

Mechanical endurance

Contact resistance Contact material

Contact rating (Res. load)

|--|

2C 70mΩ

2A

Silver alloy, Gold clad

2A 30VDC

0.5A 125VDC

60W / 62.5VA

10mV 10µA

1 x 10⁸OPS

220VDC / 250VAC

1 x 10⁵OPS (at 2A 30VDC)

1 x 10⁵OPS (at 0.5A 125VAC)

Insulation	resistance	1000MΩ (at 500VDC)		
	Between coil & contacts	1800VAC 1min		
Dielectric	Between open contacts	1000VAC 1min		
strength	Between contact sets	1800VAC 1min		
Surge with	nstand voltage			
Between o	pen contacts (10×160µs)	1500VAC (FCC part 68)		
Between c	oil & contacts (2 $ imes$ 10 μ s)	2500VAC (Telecordia)		
Operate ti	me (Set time)	3ms max.		
Release ti	me (Reset time)	3ms max.		
Ambient t	emperature	-40°C to 85°C		
Humidity		98% RH, 40 °C		
Vibration	Functional	10Hz to 55Hz 3.3mm D		
resistance	Destructive	10Hz to 55Hz 5.0mm D		
Shock	Functional	735m/s		
resistance	Destructive	980m/		
Terminatio	้าก	DIP, SMT		
Unit weigh	nt	Approx. 0.8g		
Construct	ion	Wash tight		
Netes The	data abawa abawa ara initial y	in the second		

CUIL		
Coil power	Single side stable	140mW
	1 coil latching	100mW
Temperature rise		50K max.

Notes: The data shown above are initial values.



COIL DATA

Single side stable

Order Number	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω	Nominal Power mW	Max. Allowable Voltage VDC
HFD4/1.5	1.5	1.13	0.15	16 x (1±10%)	140	2.2
HFD4/3	3	2.25	0.3	64.3 x (1±10%)	140	4.5
HFD4/4.5	4.5	3.38	0.45	145 x (1±10%)	140	6.7
HFD4/5	5	3.75	0.5	178 x (1±10%)	140	7.5
HFD4/6	6	4.5	0.6	257 x (1±10%)	140	9.0
HFD4/9	9	6.75	0.9	579 x (1±10%)	140	13.5
HFD4/12	12	9	1.2	1028 x (1±10%) 14		18.0
HFD4/24	24	18	2.4	2880 x (1±10%)	200	36.0

1 coil latching

Order Number	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω	Nominal Power mW	Max. Allowable Voltage VDC
HFD4/1.5-L	1.5	1.13	1.13	22.5x (1±10%)	100	3.0
HFD4/3-L	3	2.25	2.25	90x (1±10%)	100	6.0
HFD4/4.5-L	4.5	3.38	3.38	203x (1±10%)	100	9.0
HFD4/5-L	5	3.75	3.75	250x (1±10%)	100	10.0
HFD4/6-L	6	4.5	4.5	360x (1±10%)	100	12.0
HFD4/9-L	9	6.75	6.75	810x (1±10%)	100	18.0
HFD4/12-L	12	9	9	1440x (1±10%)	100	24.0
HFD4/24-L 24 18		18	2880x (1±10%)	200	36.0	

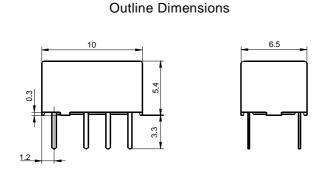
Notes: When user's requirements can't be found in the above table, please contact us.

ORDERING INFORMATION

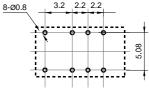
	HFD4 /	24	-L	S	R	(XXX)	
Туре	-						
Coil voltage 1.5, 3, 4.5, 5, 6, 9, 12, 24, 48VDC							
Sort L: 1 coil latching Nil: Single side stable							
Terminal type S: Standard SMT Nil: DIP							
Packing style R: Tape and reel packing (Only for SMT type) 1) Nil: Tube packing							
Customer special code							

Notes: 1) For the R type, the letter "R" will only be printed on packing tag and will not appear on relay cover.

DIP type



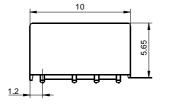




SMT type

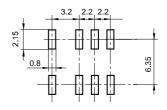


PCB Layout (Bottom view)

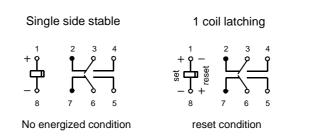




6.5



Wiring Diagram (Bottom view)

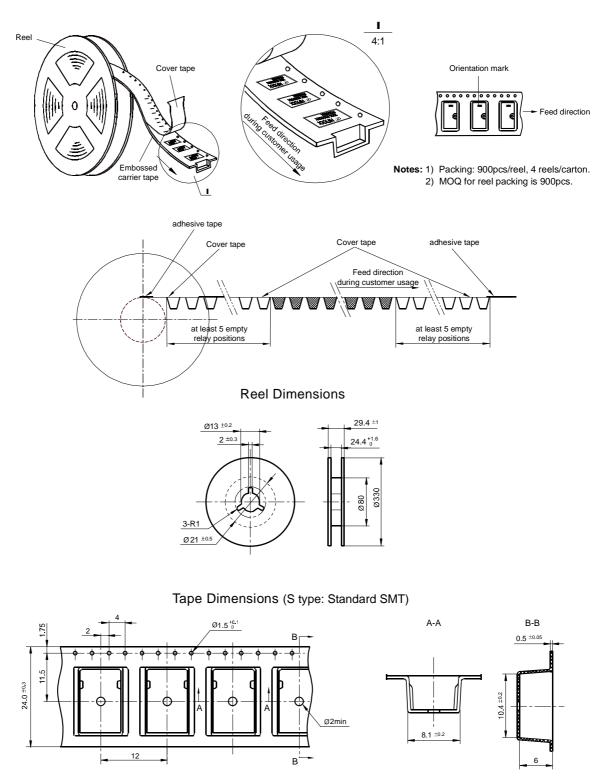


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

Unit: mm





Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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