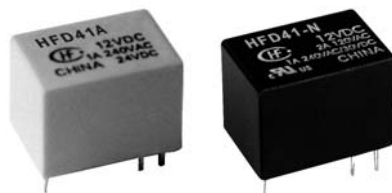


HFD41/D41A

SUBMINIATURE SIGNAL RELAY



File No.:E133481



Features

- 5A switching capability
- 1 Form C configuration
- Standard PCB layout
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (15.7 x 11.0 x 12.0) mm

CONTACT DATA

Concat arrangement	1C
Contact resistance	100mΩ (at 1A 24VDC)
Contact material	AgNi
Contact rating (Res. load)	1A 125VAC/30VDC 1A 240VAC/30VDC 2A 125VAC, 3A 120VAC 5A 120VAC
Max. switching voltage	240VAC / 30VDC
Max. switching current	5A
Max. switching power	600VA / 30W
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS

CHARACTERISTICS

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	1000VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. volt.)		10ms max.
Release time (at nomi. volt.)		5ms max.
Shock resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		35% to 85% RH
Ambient temperature		-25°C to 70°C
Termination		PCB (DIP)
Unit weight		Approx. 5g
Construction		Wash tight, Flux proofed

Notes: 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

COIL

Coil power	B: 450mW; N: 360mW; H: 200mW
------------	------------------------------

COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance x (1±10%) Ω		
				H	N	B
3	2.3	0.3	3.9	45	25	20
5	3.8	0.5	6.5	120	70	56
6	4.5	0.6	7.8	180	100	80
9	6.8	0.9	11.7	400	220	180
12	9.0	1.2	15.6	700	400	320
24	18.0	2.4	31.2	2800	1600	1280

SAFETY APPROVAL RATINGS

UL/CUL	1A 125VAC/30VDC
	1A 240VAC/30VDC
	2A 125VAC
	3A 120VAC
	5A 120VAC

Notes: Only some typical ratings are listed above. If more details are required, please contact us.



HONGFA RELAY

ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2010 Rev. 1.00

ORDERING INFORMATION

Type		HFD41 HFD41A		-012	-N	G	S	F	3	(XXX)
Coil voltage		3, 5, 6, 9, 12, 24 VDC								
Coil power		H: 200mW		N: 360mW		B: 450mW				
Contact plating		G: Gold plated		Nil: No gold plated						
Construction ¹⁾		S: Wash tight		Nil: Flux proofed						
Insulation standard		F: Class F		Nil: Class B						
Contact material		3: 3A (AgCdO Gold-plated)			5: 5A (AgCdO Gold-plated)			Nil: Standard		
Customer special code										

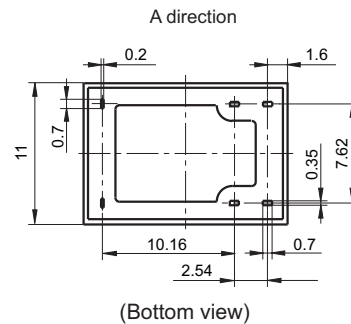
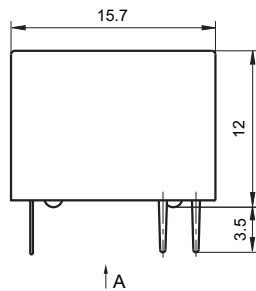
Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).
We suggest to choose wash tight types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc.).
If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

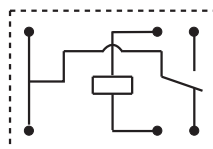
Unit: mm

Outline Dimensions

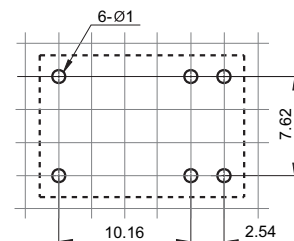
HFD41



Wiring Diagram
(Bottom view)

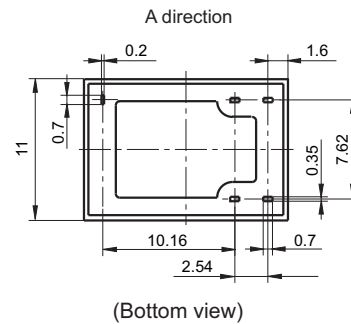


PCB Layout
(Bottom view)



Unit: mm

HFD41A



PCB Layout (Bottom view)

