

HF9318

1/2 CRYSTAL CAN HERMETICALLY SEALED RF RELAY



Features

- Broadband
- Low insertion loss,high isolation
- High ambient applicability
- All metal welded construction
- Hermetically welded and marked by laser

AMBIENT ADAPTABILITY

Ambient grade	I		II	
Ambient temperature	-55 °C to 85 °C		-65 °C to 125 °C	
Humidity			98 %, 40 °C	
Low air pressure	58.53 kPa		4.4 kPa	
Sine vibration	Frequency	10 Hz to 2 000 Hz		10 Hz to 2000 Hz
	Acceleration	147 m/s ²		196 m/s ²
Shock resistance	490 m/s ²		735 m/s ²	
Random vibration			20 (m/s ²) ² /Hz	
Steady-state acceleration			490 m/s ²	

CONTACT DATA

Ambient grade		I	II
Arrangement		1 C, 2 C	
Contact resistance	Initial max.	175 mΩ	
	After life max.	250 mΩ	

RF feature list

Working frequency	Voltage Standing Wave Ratio max.	Insertion loss max.	Isolation min.	Power capability W
0 MHz~100 MHz	1.09:1.0	0.25dB	47dB	80W
101 MHz~500 MHz	1.17:1.0	0.50dB	33dB	50W
501 MHz~1000 MHz	1.35:1.0	0.70dB	27dB	30W

Contact ratings

Ambient grade	Contact load	Type	Electrical life min.
I	2.0 A 28 Vd.c.	Resistive	1 x 10 ⁵ ops
	2.0 A 28 Vd.c.	Resistive	1 x 10 ⁵ ops
II	0.5 A 28 Vd.c. 200 mH	Inductive	1 x 10 ⁵ ops
	50 μA 50 mVd.c.	Low level	1 x 10 ⁵ ops

SPECIFICATION

Ambient grade		I	II
Insulation resistance min.		1000 MΩ (@ 500 Vd.c.)	1000 MΩ (@ 500 Vd.c.)
Dielectric strength min. (Normal condition)	Between open contacts	500 Vr.m.s.	500 Vr.m.s.
	Between contact & coil	750 Vr.m.s.	1000 Vr.m.s.
	Between contact & cover	750 Vr.m.s.	1000 Vr.m.s.
	Between contact group	750 Vr.m.s.	1000 Vr.m.s.
	Between coil & cover	500 Vr.m.s.	500 Vr.m.s.
Dielectric strength min. (Low air pressure condition)		350 Vr.m.s.	350 Vr.m.s.
Leakage rate max.		1 Pa•cm ³ /s	1 x 10 ⁻¹ Pa•cm ³ /s
Operate time max.		6 ms	5 ms
Release time max.		5 ms	5 ms
Mounting style		See the mounting dimension	
Terminals		See the terminal styles	
Weight max.	1 Z	22.5 g	
	2 Z	34 g	

COIL DATA

Norminal coil power	Approx. 1.0W
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Coil Version

Vd.c.

Order Number	Coil voltage		at 25 °C					-65°C to 125°C			
	Nominal voltage	Value max.	Coil resistance (1±10%) (Ω)	Pick-up voltage max.		Hold voltage max.	Drop-out voltage min.	Pick-up voltage max.		Hold voltage max.	Drop-out voltage min.
				I	II			I	II		
006	6	7.5	40	3.6	3.2	2.00	0.35	4.8	4.5	2.9	0.25
012	12	15.0	160	7.2	6.4	4.00	0.70	9.6	9.0	5.8	0.50
027	27	32.0	700	16.2	13.5	8.00	1.50	21.6	18.0	14.0	1.00

Notes: We can offer many kinds of coil voltage under the requirement of users.

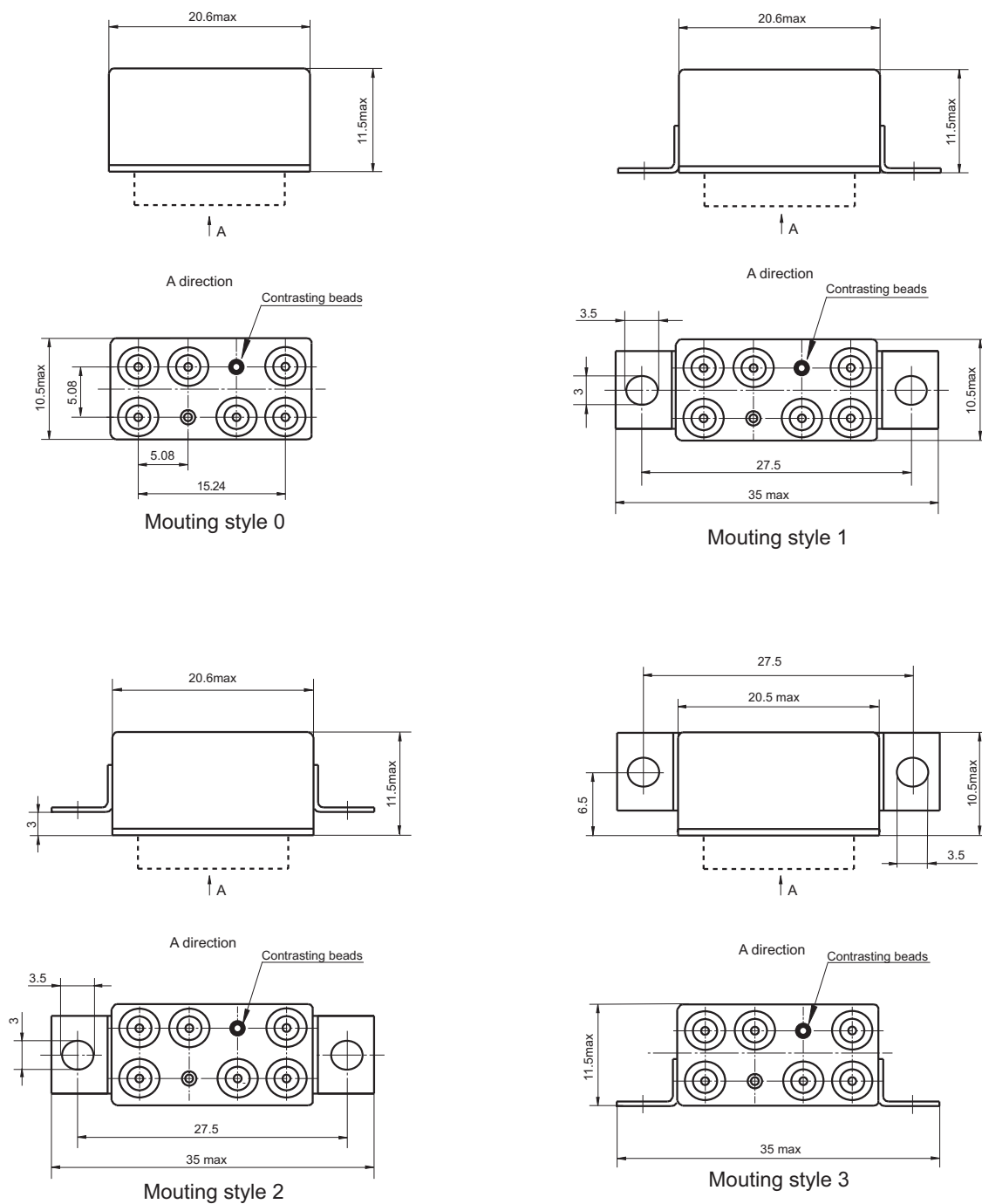
ORDERING INFORMATION

Type	HF9318	-012	-0	-1	-1	-2	- I
Order Number	006、012、027						
Mounting Style	0、1、2、3 (See the mounting dimension)						
Terminals Style	0、1 (See " Terminal styles " below)						
Coaxial Cable code	0、1 (See " Terminal styles " below)						
RF contacts arrangement	1、2						
Ambient Grade	I 、 II						

OUTLINE DIMENSIONS AND WIRING DIAGRAM

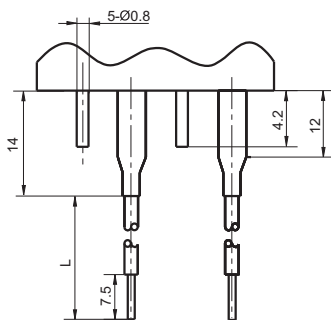
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Outline Dimension

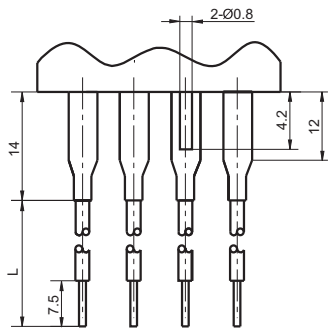


OUTLINE DIMENSIONS AND WIRING DIAGRAM

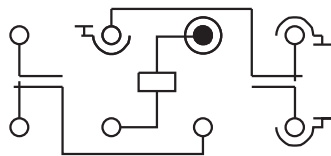
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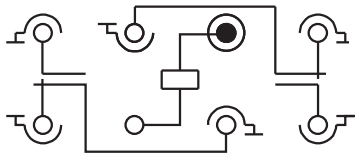
Terminal style 0
(1 Form C RF contacts and 1 Form C DC contacts)



Terminal style 1
(2 Form C RF contacts)



1 Form C RF contacts and 1 Form C DC contacts bottom view



2 Form C RF contacts bottom view

Type	SFF-50-1	SFF-50-1.5-1
Code	0	1
L	150mm	200mm

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

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