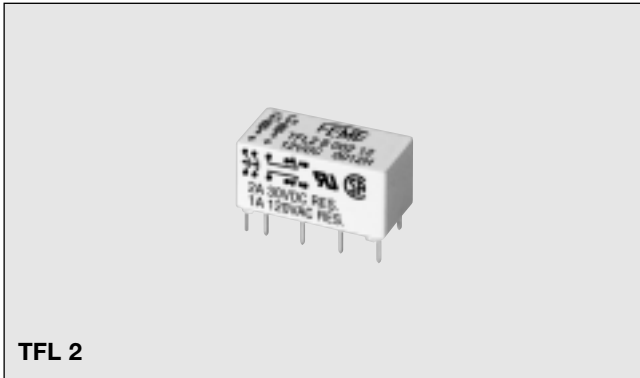


Subminiature Relays

Type TFL 2

Bistable



- Subminiature relay
- Dual-in-Line terminals
- Switching capacity 2 A
- DC coils 5 to 24 VDC
- 2 change over contacts
- General purpose, telecom, industrial electronics
- Sealed as standard
- Low profile and light weight
- High reliability

Product Description

Miniature relay with low power consumption, Bistable with two coils, polarized, with two change over bifurcated contacts. It is sealed, particularly designed for

telecommunication, telephone applications, and low load level switching. Conforming to FCC standard of USA.

Ordering Key

TFL 2 B 002 12

Type _____
 Version _____
 Contact code _____
 Coil rated voltage _____

Version
 A = Sensitive
 B = High Sensitive

Type Selection

Contact configuration	Contact rating	Contact code
2 change over contacts (DPDT {2-form C})	2 A	002

Coil Characteristics, DC (20°C)

'A' sensitive version				'B' high sensitive version			
Rated voltage VDC	Winding Resistance $\Omega \pm 10\%$	Operating range		Rated voltage VDC	Winding Resistance $\Omega \pm 10\%$	Operating range	
		Set reset VDC	Max. VDC			Set reset VDC	Max. VDC
5	125	3.75	110% of rated voltage for 100 ms	5	167	4.0	110% of rated voltage for 100 ms
6	180	4.50		6	240	4.8	
9	405	6.75		9	540	7.2	
12	720	9.00		12	960	9.6	
15	1125	11.25		15	1500	12.0	
24	2040	18.00		24	3840	19.2	

Contact Characteristics

Rating	2 A	Voltage	
Material (standard version)	Silver alloy gold clad	Rated voltage	30 VDC / 125 VAC
Current		Max. switching voltage with resistive load	220 VDC / 250 VAC
Rated current	2 A 30 VDC 1 A 125 VAC 100 μA	Min. switching voltage	10 mV
Min. switching current		Min. switching power	1 mW
Max. switching current with resistive load	2 A	Life	
Max carrying current with resistive load	5A	Electrical life	
Max. switching power with resistive load	60 W / 1250 VA	1A/30VDC	5 x 10⁵ cycles
		2A/30VDC	1 x 10⁵ cycles
		Mechanical life	1 x 10⁸ cycles
		Max. switching frequency	40 Hz

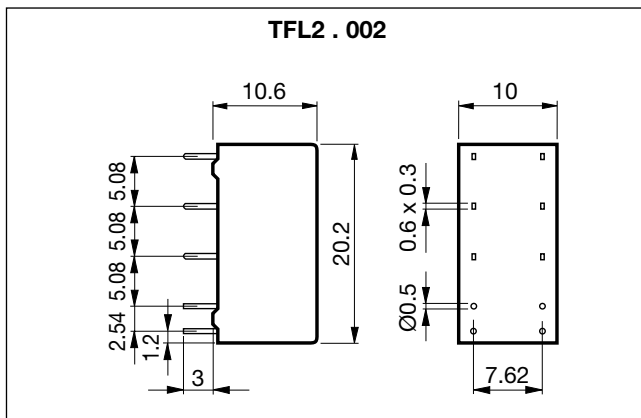
Insulation

Test voltage (1 min.) Open contact Contacts/coil	1000 VAC (standard) 1500 VAC
Insulation resistance at 500 VDC	> 1000 MΩ

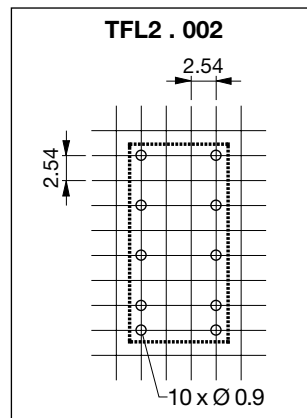
General Data

Minimum pulse width	10 ms
Maximum pulse width	100 ms
Max. Operating time at rated voltage (excl. bounces)	≤ 6 ms
Max. Release time (excl. bounces)	≤ 3 ms
Vibration resistance	196 m/s² (20g) 10 to 55 Hz
Ambient temperature	-40 °C to +85 °C
Shock resistance functional destructive	490 m/s² (50 g) 980 m/s² (100 g)
Weight	~ 3.7 g
Working class / type of serv.	C / continuous

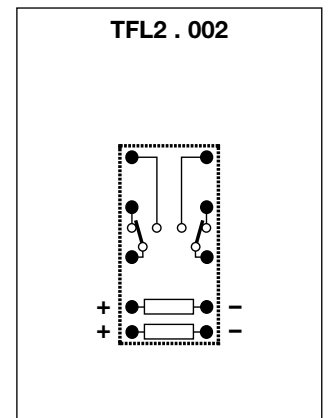
Dimensions



Pin View

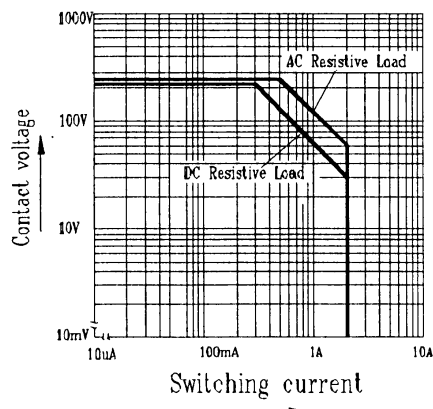


Wiring Diagram

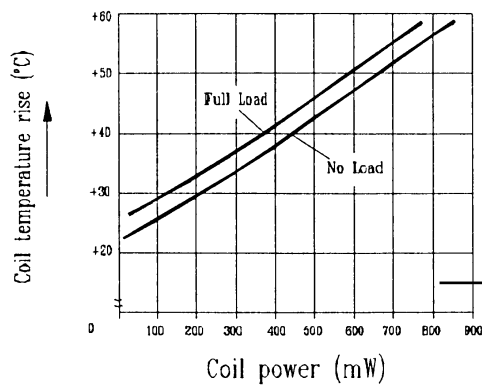


Diagrams

1 Maximum Switching Power



2 Coil temperature rise



Approvals



U.S.A.

CANADA

The approvals stated are not generally applicable to all relay versions of a particular type.

For further information please apply for relevant data sheets ref. **3.84.00.10.X**