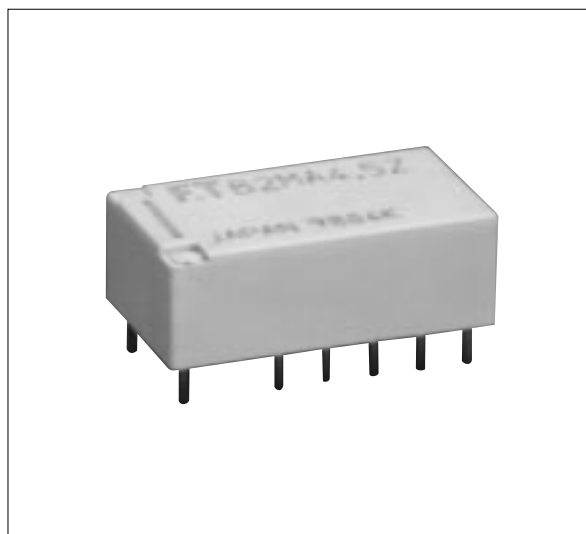


4 POLE (2 FORM C+ 2 FORM A) SIGNAL RELAY FOR CENTRAL SWITCHING/ DATA TRANSMISSION

FTR-B2 Series

■ FEATURES

- 4 POLE MINIATURE RELAY
Mounting space of 175mm² with 4 pole relay, suitable for high density mounting.
- SAFETY STANDARD
 - UL/CSA recognized
 - Conforms to Bellcore specification & FCC part 68
 - Conforms to IEC 60950 / UL1950 / EN60950 spacing and high breakdown voltage
 - Clearance: 1.0mm
 - Creepage: 1.6mm
- HIGH RELIABILITY
Bifurcated gold overlay silver alloy
- HIGH HEAT RESISTANCE, FLAMMABILITY
Flammability grade of 94V-0 materials employed
- AIR TIGHT CONSTRUCTION
Air tight construction allows high resistance to various environments and to clean the relay
- SMT VERSION
Surface mount type available on request



■ ORDERING INFORMATION

[Example] FTR-B2 M A 012 Z - **
 (a) (b) (c) (d) (e) (f)

(a)	Series Name	FTR-B2
(b)	Contact Arrangement	M : 2 Form C + 2 Form A - through hole N : 2 Form C + 2 Form A - SMT
(c)	Coil Type	A : Standard (400mW)
(d)	Coil Nominal Voltage	4.5: 4.5VDC 012: 12VDC
(e)	Contact Material	Z : Gold overlay silver alloy
(f)	Custom Designation	Special Number for Customized Products

Remarks: Actual marking on relay would not carry code FTR and be as below:

Ordering code		Actual marking
FTR-B2MA012Z	→	B2MA012Z

FTR-B2 Series

■ SAFETY STANDARD AND FILE NUMBERS

UL508, 1950 (File No. E63615)

C22.2 No. 14, No. 950 (File No. LR40304)

Please request when the approval markings are required on the cover.

Nominal voltage	Contact rating
4.5 to 12 VDC	0.2 A 125 VAC 1 A 30 VDC 0.3 A 110 VDC — resistive

Clearance	Creepage	Remarks
1.0mm coil a- contacts	1.6mm coil - contacts	- working voltage: 150V - relay inside and outside - pollution degree "2"

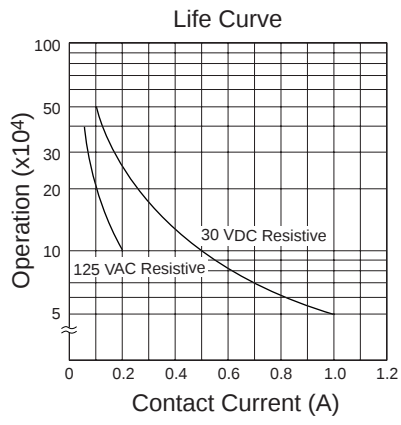
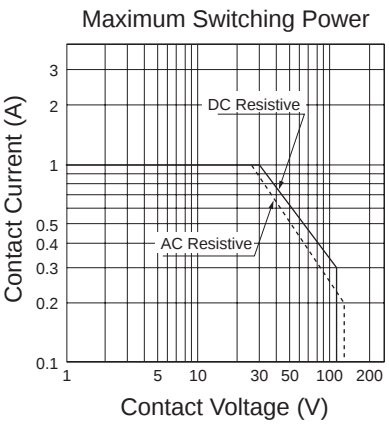
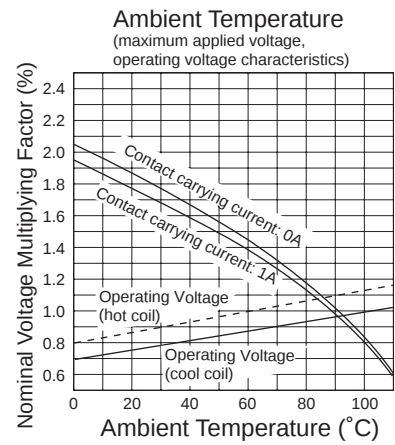
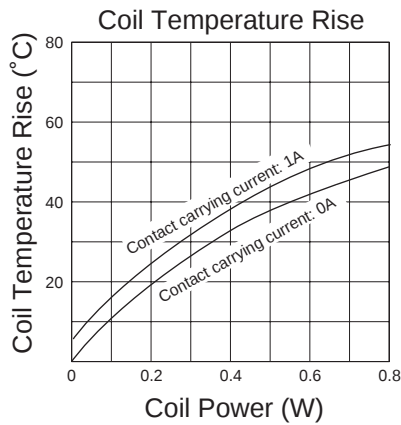
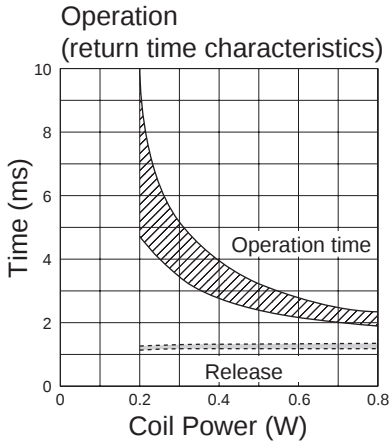
■ COIL DATA CHART

MODEL	Nominal Voltage	Coil Resistance	Operate Voltage	Release Voltage	Nominal Power
FTR-B2 () A4.5Z	4.5VDC	50Ω	3.38VDC	0.45VDC	400mw
FTR-B2 () A012Z	12VDC	355Ω	9.0VDC	1.2VDC	400mw

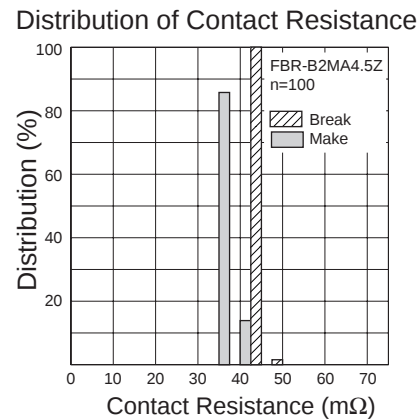
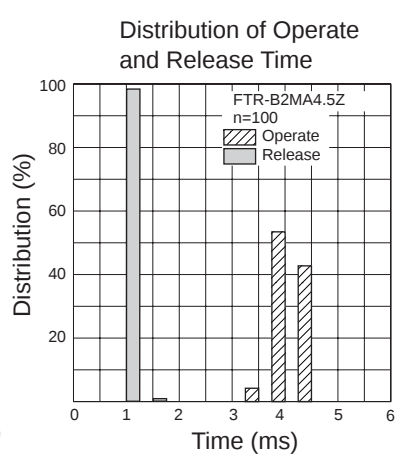
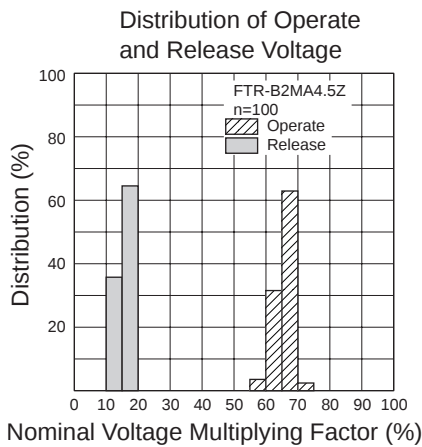
■ SPECIFICATIONS

Item		FTR-B2 Series
Contact	Arrangement	2 Form C + 2 Form A
	Material	Gold overlay Silver alloy
	Resistance (initial)	Maximum 75mΩ (at 1A 6VDC)
	Rating (resistive)	30VDC 1A / 125VAC 0.2A
	Maximum Switching Power	30W / 25VA
	Maximum Switching Voltage	110VDC / 125VAC
	Maximum Switching Current	1A
	Maximum Carrying Current	1.25A
Time Value	Operate Time (at nominal voltage)	Maximum 10ms
	Release Time (at nominal voltage)	Maximum 5ms
Coil	Operating Temperature	-40° C to +85° C (no frost)
Insulation	Resistance (at 500VDC)	Minimum 1,000 MΩ
	Dielectric Strength	750 VAC 1 Min. (open contacts) 500 VAC 1 Min. (adjacent contacts) 1,500 VAC 1 Min. (coil-contacts)
Life	Mechanical	10 x 10 ⁶ operations minimum
	Electrical	50 x 10 ³ operations minimum at 30VDC 1A 100 x 10 ³ operations minimum at 125VDC 0.2A
Vibration	Misoperation	10-55 Hz (double amplitude of 1.5mm)
	Endurance	10-55 Hz (double amplitude of 1.5mm)
Shock	Misoperation	100m/s ² (11±1ms)
	Endurance	500m/s ² (6±1ms)
Weight		Approximately 3.9g

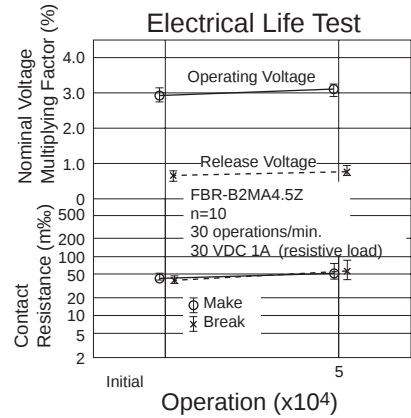
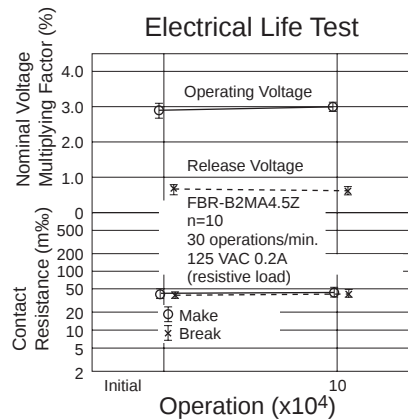
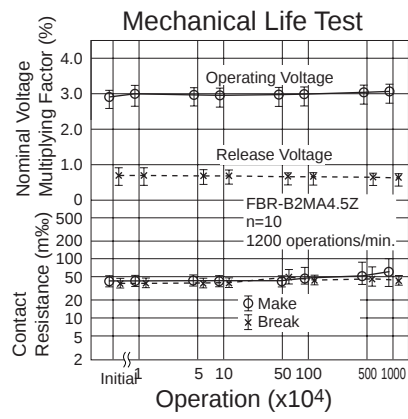
CHARACTERISTIC DATA



REFERENCE DATA



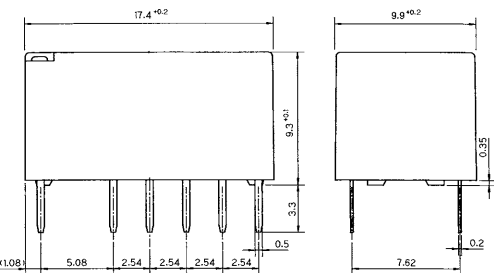
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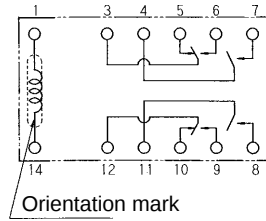
DIMENSIONS

Dimensions

Through hole type



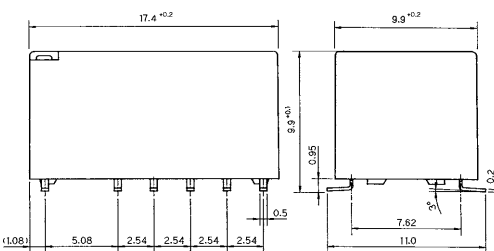
Schematics (BOTTOM VIEW)



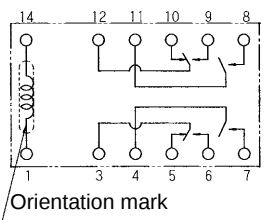
PC board mounting hole layout (BOTTOM VIEW)

Dimensions

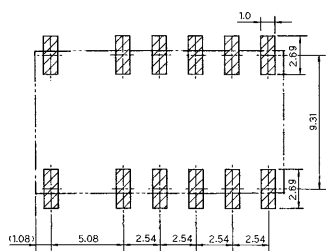
Surface mount type



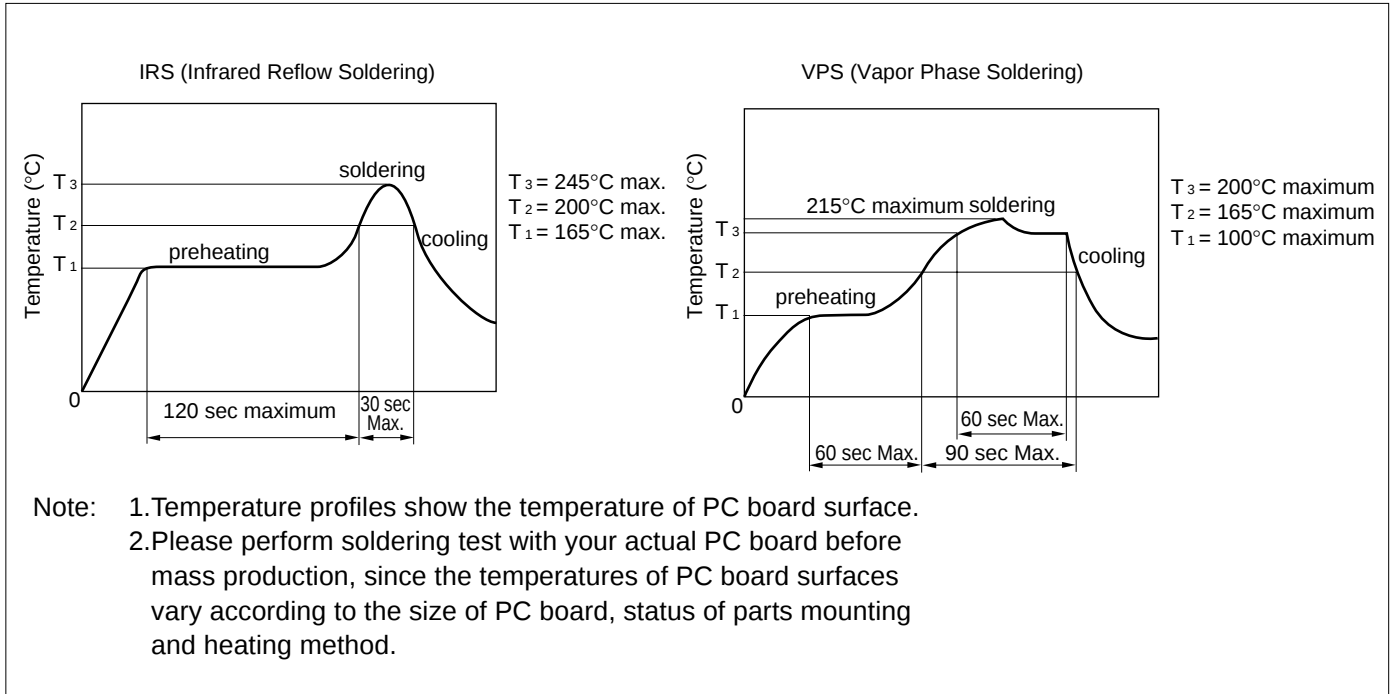
Schematics (TOP VIEW)



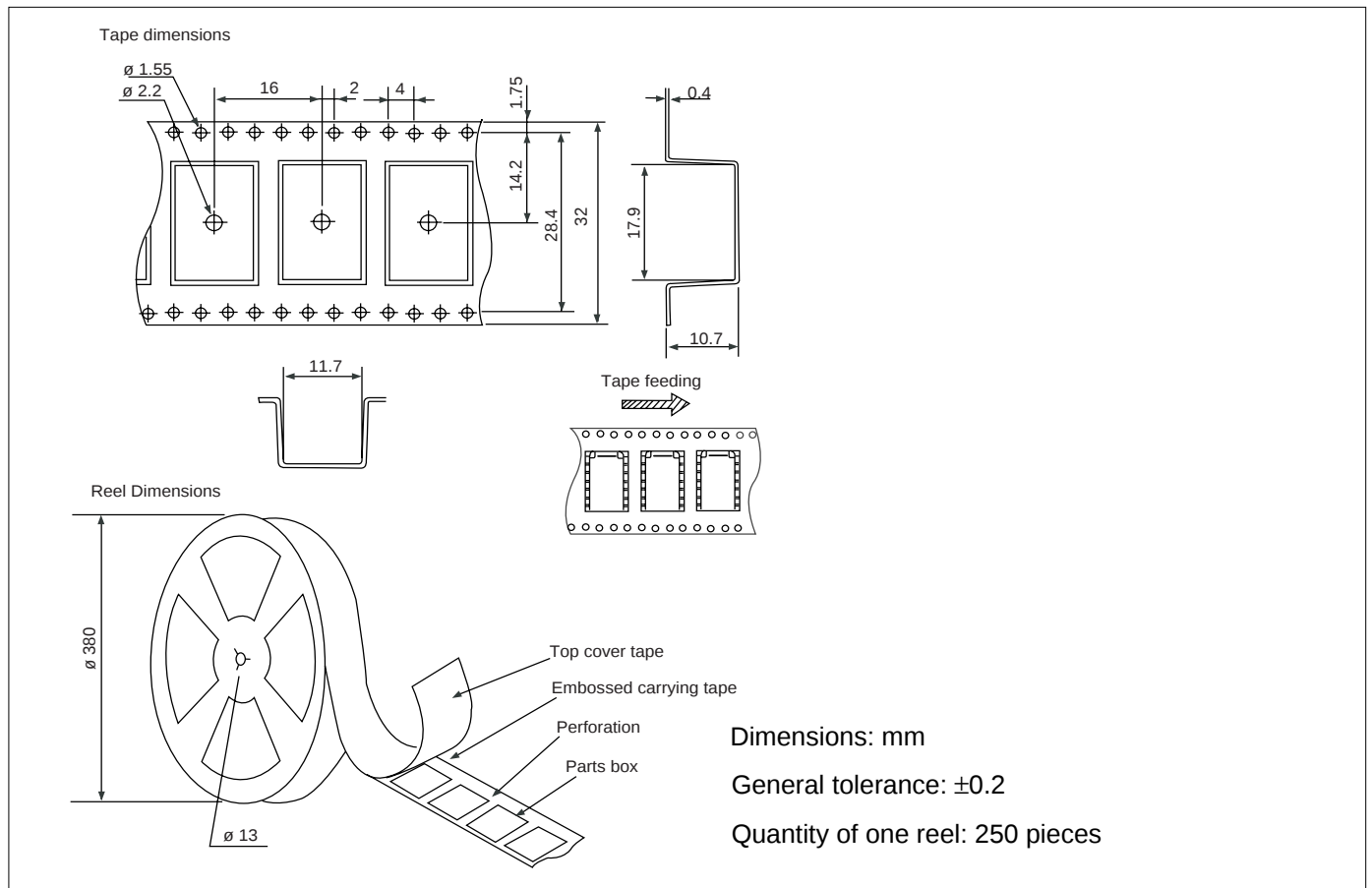
PC board mounting hole layout (TOP VIEW)



RECOMMENDED CONDITION (Temperature Profile)



PACKAGING



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