4 Pole (2 FORM C+ 2 FORM A) Signal Relay for Central Switching/ **Data Transmission**

FTR-B2 SERIES

RoHS compliant

FEATURES

- 4 POL MINIATURE RELAY Moving pace of 175mm² with 4 pole relay, suitable for high dr Jity m Jinting.
- JARD JARD -ULIJSAr Jogr J.
 - Confor s to B 'core specification & FCC part 68
 - Conforms > IE(309/ 1950 / EN60950 spacing and high break wr utage
 - Clearance: 1.0mm
- Creepage: 1.6mm
- HIGH RELIABILITY Bifurcated gold overlay silve. anoy
- HIGH HEAT RESISTANCE, FLA MA JU . Y Flammability grade of 94V-0 materia inplov
- AIR TIGHT CONSTRUCTION Airtight construction allows high resistance variou nvir ments and to clean the relay
- SMT VERSION •

Surface mount type available on request

RoHS compliant since date code: 0430B8 • Please see page 7 for more information

ORDERING INFORMATION

FTR-B2 M_A 0<u>12 Z_**</u> [Example] (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 allo y
(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



(2008)

■ 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′ J 12′DC	0.2 A 1 A 0.3 A	125 VAC	

Clear ce	Creepage	Remarks
1.0mm coil a- contacts	1.6him coil - cr s	 working voltage: 150V relay inside and outside pollution degree "2"

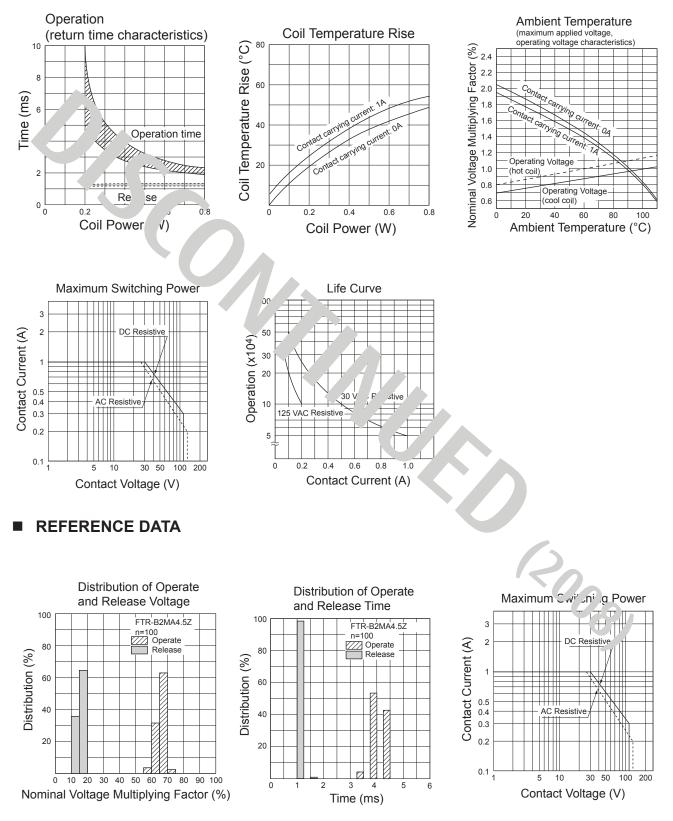
COIL DATA CHART

МО	DEL		Cc ⁻⁺ Resistance	Must Operate	Must Release Voltage
FTR-F2 Series	FTR-H2 Series	Volta	(± 10%)	Voltage	voltage
FTR-F2AK005T	FTR-H2AK005T	5VDC	Ω	3.5VDC	0.25VDC
FTR-F2AK006T	FTR-H2AK006T	6VDC	87	4.2VDC	0.3VDC
FTR-F2AK009T	FTR-H2AK009T	9VDC	νω	6.3VDC	0.45VDC
FTR-F2AK012T	FTR-H2AK012T	12VDC	270	8.4VDC	0.6VDC
FTR-F2AK024T	FTR-H2AK024T	24VDC	1,20 2	۱ _L ۹VDC	1.2VDC
FTR-F2AK048T	FTR-H2AK048T	48VDC	4,400 Ω	33.6' `?	2.4VDC
					008

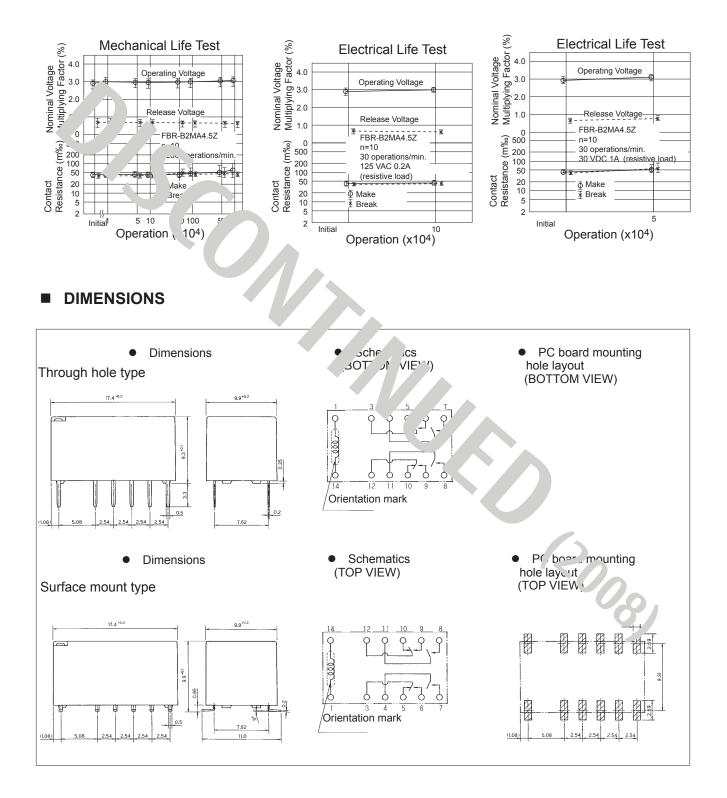
■ SPECIFICATIONS

Item		FTR-B2 Series
Contact	Arrangement	2 Form C + 2 Form A
	Material	Gold overlay Silver alloy
	Resistance (initial)	Maximum 75mΩ (at 1A 6VDC)
	.ating (resistive)	30VDC 1A / 125VAC 0.2A
	N xim, m Switching Power	30W / 25VA
	M im	110VDC / 125VAC
	Max Jum Sw ^{ir} ¬ Current	1A
	Maximum arryin Jurrent	1.25A
Time Value	Operate Time vat r n' al v 'tage)	Maximum 10ms
	Release Time (at non voltar	Maximum 5ms
Coil	Operating Temperature	J° C to +85° C (no frost)
Insulation	Resistance (at 500VDC)	M ⁱ , μm 1,000 MΩ
	Dielectric Strength	50 /A 1 Mon. (open contacts) 50 AC Jun. (odjacent contacts) 1,50 V 1 M ² . (coil-contacts)
Life	Mechanical	10 x 10 ^L pe .don .nink.um
	Electrical	50 x 10 ³ operations miniment t 30VDC 1A 100 x 10 ³ operations maintenant it 125VDC 0.2A
Vibration	Misoperation	10-55 Hz (double am, itud 1.5mm)
	Endurance	10-55 Hz (double amplitude of 1.57.m)
Shock	Misoperation	100m/s ² (11±1ms)
Shock	Endurance	500m/s ² (6±1ms)
Weight		Approximately 3.9g

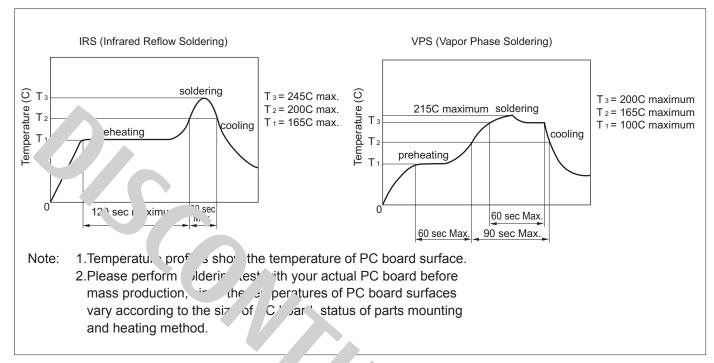




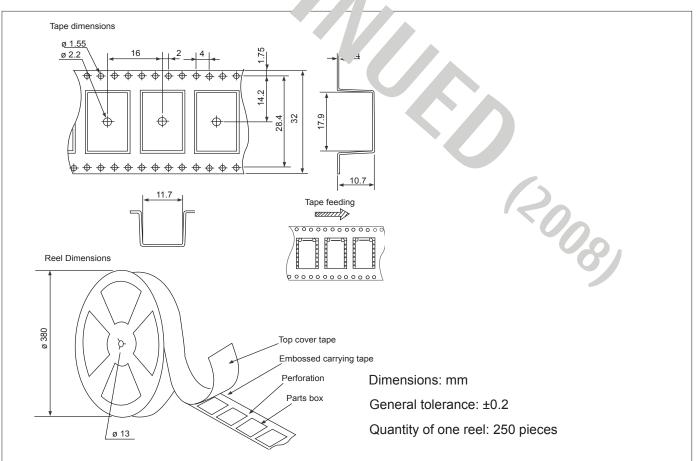
REFERENCE DATA



RECOMMENDED CONDITION (Temperature Profile)



PACKAGING



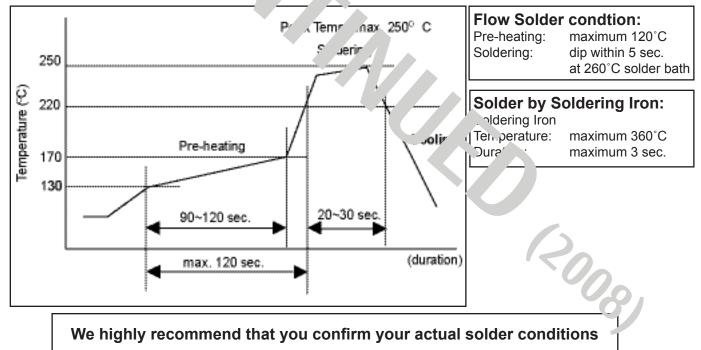
RoHS Compliance and Lead Free Relay Information

1. General Information

- Relays produced after the specific date code that is indicated on each data sheet are lead-free now. Most of our signal and power relays are lead-free. Please refer to Lead-Free Status Info. (http://www.fcai.fujitsu.com/pdf/LeadFreeLetter.pdf)
- Lead free solder paste currently used in relays is Sn-3.0Aq-0.5Cu. From February 2005 forward Sn-3.0Cu-Ni will be used for FTRB3 and FTR-B4 series relays.
- Most signal and some power relays also comply with RoHS. Please refer to individual data sheets ... ys that are RoHS compliant do not contain the 6 hazardous materials that are __urict/ by RoHS directive (lead, mercury, cadmium, chromium IV, PBB, PBDE).
- It as be ver ad that using lead-free relays in leaded assembly process will not cause any prok ... (c' .pat:
- "LF" is me d or ach outer and inner carton. (No marking on individual relays).
- To avoid leaded re ys (for load-free sample, etc.) please consult with area sales office. • We will ship le. * re' , s as long as the leaded relay inventory exists.

2. Recommended Load Free Solder Profile

Recommended solder pas - .- 3.C .C 0.5Cu and Sn-3.0 Cu-Ni (only FTR-B3 and FTR-B4 from February • Reflow Solder condtion



3. Moisture Sensitivity

Moisture Sensitivity Level standard is not applicable to electromechanical realys.

4. Tin Whisker

SnAgCu solder is known as low riskof tin whisker. No considerable length whisker was found by our in-house test.

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