

POWER RELAY

1 POLE 16 A—SLIM POWER RELAY

FTR-JR Series

RoHS compliant



■ FEATURES

- 1 Pole 16A slim relay with #187 Tab terminal
- Nominal power: 530 mW (35% power reduction compared to J Series)
- Cadmium free contacts
- Insulation resistance: 9.5mm, Dielectric strength: 5K VAC
Surge voltage 10K VAC
- JB: Tab terminal and contact terminal are connected electrically
JC: Tab terminal and contact terminal are not connected electrically
- UL Class B (130 °C), Flame rating V-0
- SAFETY STANDARDS
UL, CSA, VDE
- RoHS compliant since date code: 04J4R
Please see page 34 for more information



■ APPLICATIONS

- Microwave oven magnetron, and heater

■ ORDERING INFORMATION

[Example] FTR-JR J B 012 W - **
 (a) (b) (c) (d) (e) (f)

(a)	Series Name	FTR-JR Series
(b)	Contact Arrangement	J : Tab terminal (#187)
(c)	Coil Type	B : 530 mW (TAB and PCB terminals connected) C : 530mW (TAB and PCB terminals unconnected)
(d)	Coil Nominal Voltage	012 : 12 VDC 018 : 18 VDC 024 : 24 VDC
(e)	Contact Material	W : Silver alloy
(f)	Custom Designation	Special Number

Note: The designation name is stamped on the top of the relay case as follows:
(Example: Designation ordered: FTR-JRJB012W
Stamp: JRJB012W

COIL DATA CHART

MODEL	Nominal Voltage	Coil Resistance (± 10%)	Must Operate Voltage	Must Release Voltage	Nominal Power
FTR-JR Series					
FTR-JRJ()012W	12 VDC	270 W	9.0 VDC	0.6 VDC	530 mW
FTR-JRJ()018W	18 VDC	610 W	13.5 VDC	0.9 VDC	530 mW
FTR-JRJ()024W	24 VDC	1,100 W	18.0 VDC	1.2 VDC	530 mW

Note: All values in the table are measured at 20°C.

SPECIFICATIONS

Item			FTR-JR Series
Contact	Arrangement		1 Form A (SPST-NO)
	Material		Silver alloy
	Resistance (initial)		Maximum 100 m ohm (at 1A 6VDC)
	Rating (resistive)		277VAC 16 A
	Maximum Carrying Current		20A
	Maximum Switching Rating		400 WVA
	Maximum Switching Voltage		200 VAC
	Maximum Switching Current		20 A
	Maximum Switching Load **		5 VDC, 10 mA
Coil	Nominal Power (at 20° C)		530mW
	Operate Power (at 20° C)		300mW
	Operating Temperature		-40° C to +85° C (no frost)
Time Value	Operate Time (at nominal voltage)		Maximum 15 ms (excluding bounce time)
	Release Time (at nominal voltage)		Maximum 10 ms (excluding bounce time)
Life	Mechanical		2 x 10 ⁷ operations minimum
	Electrical	Contact Rating	10 x 10 ⁴ operations minimum
Other	Vibration Resistance	Misoperation	10-55 Hz (double amplitude of 1.65mm)
		Endurance	10-55 Hz (double amplitude of 2.0mm)
	Shock Resistance	Misoperation	200m/s ² (11±1ms)
		Endurance	1,000m/ s ² (6±1ms)
	Weight		Approximately 20g

*1 Minimum switching loads mentioned above are reference values. Please perform the confirmation test with the actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

FTR-JR Series

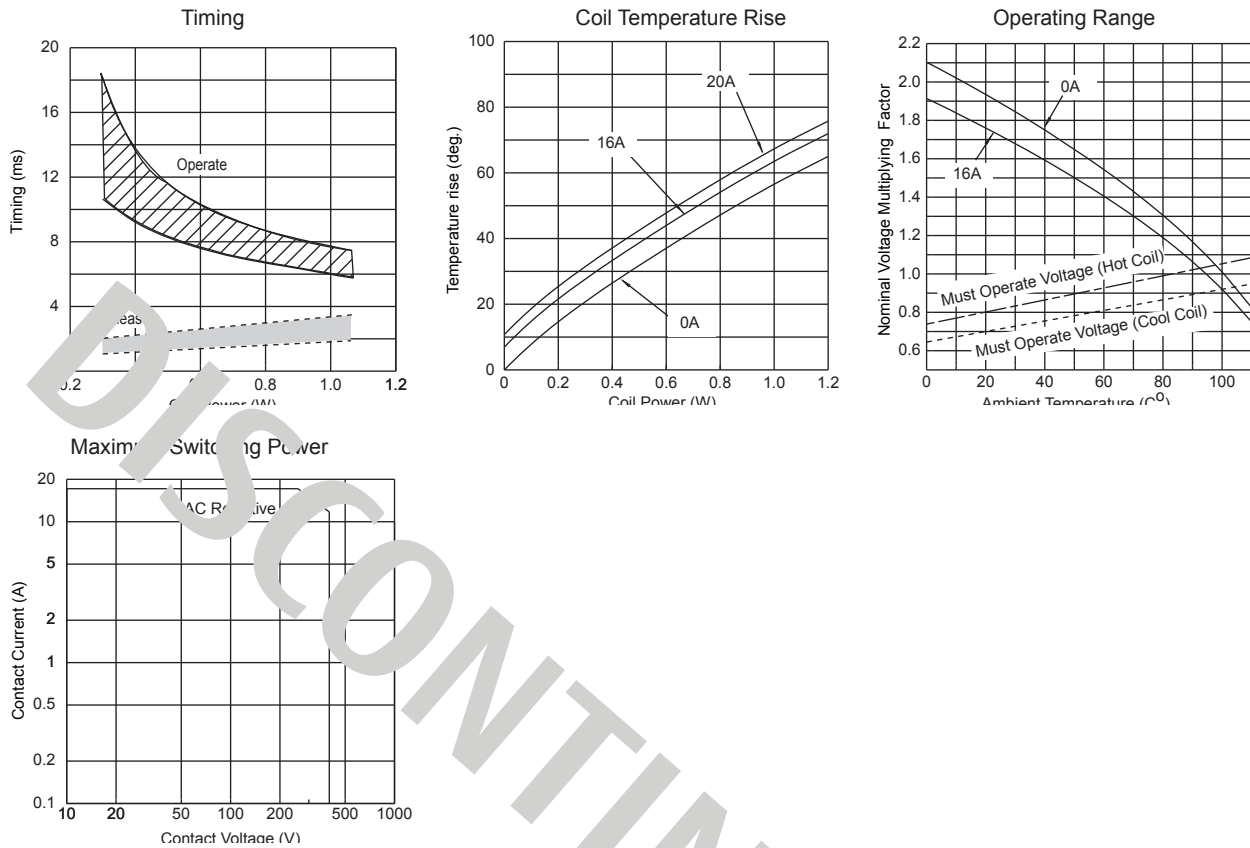
■ INSULATION

Item		FTR-JR	Note
Resistance (initial)		Minimum 1,000 MΩ	at 500 VDC
Dielectric Strength	open contacts	1,000 VAC (50/60 Hz) 1 min.	
	coil and contacts	5,000 VAC (50/60 Hz) 1 min.	
Surge Voltage (coil and contact)		10,000 V	1.2 x 50μs standard wave

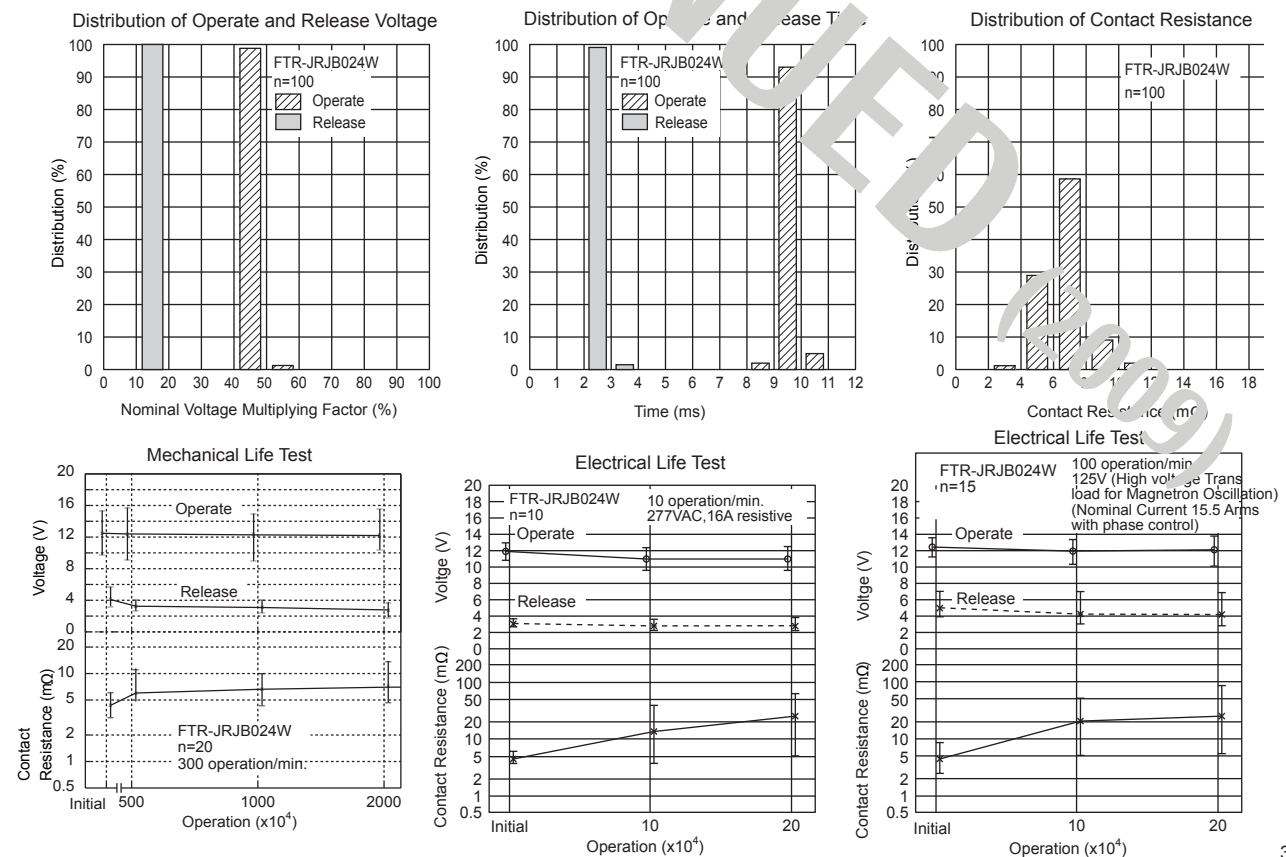
■ SAFETY STANDARDS

Type	Compliance	Contact rating
UL	UL 508, 508A, 508B, 508C, 508D, 508E, 508F, 508G, 508H, 508I, 508J, 508K, 508L, 508M, 508N, 508O, 508P, 508Q, 508R, 508S, 508T, 508U, 508V, 508W, 508X, 508Y, 508Z, 508AA, 508AB, 508AC, 508AD, 508AE, 508AF, 508AG, 508AH, 508AI, 508AJ, 508AK, 508AL, 508AM, 508AN, 508AO, 508AP, 508AQ, 508AR, 508AS, 508AT, 508AU, 508AV, 508AW, 508AX, 508AY, 508AZ, 508BA, 508BB, 508BC, 508BD, 508BE, 508BF, 508BG, 508BH, 508BI, 508BJ, 508BK, 508BL, 508BM, 508BN, 508BO, 508BP, 508BQ, 508BR, 508BS, 508BT, 508BU, 508BV, 508BW, 508BX, 508BY, 508BZ, 508CA, 508CB, 508CC, 508CD, 508CE, 508CF, 508CG, 508CH, 508CI, 508CJ, 508CK, 508CL, 508CM, 508CN, 508CO, 508CP, 508CQ, 508CR, 508CS, 508CT, 508CU, 508CV, 508CW, 508CX, 508CY, 508CZ, 508DA, 508DB, 508DC, 508DD, 508DE, 508DF, 508DG, 508DH, 508DI, 508DJ, 508DK, 508DL, 508DM, 508DN, 508DO, 508DP, 508DQ, 508DR, 508DS, 508DT, 508DU, 508DV, 508DW, 508DX, 508DY, 508DZ, 508EA, 508EB, 508EC, 508ED, 508EE, 508EF, 508EG, 508EH, 508EI, 508EJ, 508EK, 508EL, 508EM, 508EN, 508EO, 508EP, 508EQ, 508ER, 508ES, 508ET, 508EU, 508EV, 508EW, 508EX, 508EY, 508EZ, 508FA, 508FB, 508FC, 508FD, 508FE, 508FF, 508FG, 508FH, 508FI, 508FJ, 508FK, 508FL, 508FM, 508FN, 508FO, 508FP, 508FQ, 508FR, 508FS, 508FT, 508FU, 508FV, 508FW, 508FX, 508FY, 508FZ, 508GA, 508GB, 508GC, 508GD, 508GE, 508GF, 508GG, 508GH, 508GI, 508GJ, 508GK, 508GL, 508GM, 508GN, 508GO, 508GP, 508GQ, 508GR, 508GS, 508GT, 508GU, 508GV, 508GW, 508GX, 508GY, 508GZ, 508HA, 508HB, 508HC, 508HD, 508HE, 508HF, 508HG, 508HH, 508HI, 508HJ, 508HK, 508HL, 508HM, 508HN, 508HO, 508HP, 508HQ, 508HR, 508HS, 508HT, 508HU, 508HV, 508HW, 508HX, 508HY, 508HZ, 508IA, 508IB, 508IC, 508ID, 508IE, 508IF, 508IG, 508IH, 508II, 508IJ, 508IK, 508IL, 508IM, 508IN, 508IO, 508IP, 508IQ, 508IR, 508IS, 508IT, 508IU, 508IV, 508IW, 508IX, 508IY, 508IZ, 508JA, 508JB, 508JC, 508JD, 508JE, 508JF, 508JG, 508JH, 508JI, 508JJ, 508JK, 508JL, 508JM, 508JN, 508JO, 508JP, 508JQ, 508JR, 508JS, 508JT, 508JU, 508JV, 508JW, 508JX, 508JY, 508JZ, 508KA, 508KB, 508KC, 508KD, 508KE, 508KF, 508KG, 508KH, 508KI, 508KJ, 508KK, 508KL, 508KM, 508KN, 508KO, 508KP, 508KQ, 508KR, 508KS, 508KT, 508KU, 508KV, 508KW, 508KX, 508KY, 508KZ, 508LA, 508LB, 508LC, 508LD, 508LE, 508LF, 508LG, 508LH, 508LI, 508LJ, 508LK, 508LL, 508LM, 508LN, 508LO, 508LP, 508LQ, 508LR, 508LS, 508LT, 508LU, 508LV, 508LW, 508LX, 508LY, 508LZ, 508MA, 508MB, 508MC, 508MD, 508ME, 508MF, 508MG, 508MH, 508MI, 508MJ, 508MK, 508ML, 508MM, 508MN, 508MO, 508MP, 508MQ, 508MR, 508MS, 508MT, 508MU, 508MV, 508MW, 508MX, 508MY, 508MZ, 508NA, 508NB, 508NC, 508ND, 508NE, 508NF, 508NG, 508NH, 508NI, 508NJ, 508NK, 508NL, 508NM, 508NN, 508NO, 508NP, 508NQ, 508NR, 508NS, 508NT, 508NU, 508NV, 508NW, 508NX, 508NY, 508NZ, 508OA, 508OB, 508OC, 508OD, 508OE, 508OF, 508OG, 508OH, 508OI, 508OJ, 508OK, 508OL, 508OM, 508ON, 508OO, 508OP, 508OQ, 508OR, 508OS, 508OT, 508OU, 508OV, 508OW, 508OX, 508OY, 508OZ, 508PA, 508PB, 508PC, 508PD, 508PE, 508PF, 508PG, 508PH, 508PI, 508PJ, 508PK, 508PL, 508PM, 508PN, 508PO, 508PP, 508PQ, 508PR, 508PS, 508PT, 508PU, 508PV, 508PW, 508PX, 508PY, 508PZ, 508QA, 508QB, 508QC, 508QD, 508QE, 508QF, 508QG, 508QH, 508QI, 508QJ, 508QK, 508QL, 508QM, 508QN, 508QO, 508QP, 508QQ, 508QR, 508QS, 508QT, 508QU, 508QV, 508QW, 508QX, 508QY, 508QZ, 508RA, 508RB, 508RC, 508RD, 508RE, 508RF, 508RG, 508RH, 508RI, 508RJ, 508RK, 508RL, 508RM, 508RN, 508RO, 508RP, 508RQ, 508RR, 508RS, 508RT, 508RU, 508RV, 508RW, 508RX, 508RY, 508RZ, 508SA, 508SB, 508SC, 508SD, 508SE, 508SF, 508SG, 508SH, 508SI, 508SJ, 508SK, 508SL, 508SM, 508SN, 508SO, 508SP, 508SQ, 508SR, 508SS, 508ST, 508SU, 508SV, 508SW, 508SX, 508SY, 508SZ, 508TA, 508TB, 508TC, 508TD, 508TE, 508TF, 508TG, 508TH, 508TI, 508TJ, 508TK, 508TL, 508TM, 508TN, 508TO, 508TP, 508TQ, 508TR, 508TS, 508TT, 508TU, 508TV, 508TW, 508TX, 508TY, 508TZ, 508UA, 508UB, 508UC, 508UD, 508UE, 508UF, 508UG, 508UH, 508UI, 508UJ, 508UK, 508UL, 508UM, 508UN, 508UO, 508UP, 508UQ, 508UR, 508US, 508UT, 508UU, 508UV, 508UW, 508UX, 508UY, 508UZ, 508VA, 508VB, 508VC, 508VD, 508VE, 508VF, 508VG, 508VH, 508VI, 508VJ, 508VK, 508VL, 508VM, 508VN, 508VO, 508VP, 508VQ, 508VR, 508VS, 508VT, 508VU, 508VV, 508VW, 508VX, 508VY, 508VZ, 508WA, 508WB, 508WC, 508WD, 508WE, 508WF, 508WG, 508WH, 508WI, 508WJ, 508WK, 508WL, 508WM, 508WN, 508WO, 508WP, 508WQ, 508WR, 508WS, 508WT, 508WU, 508WV, 508WW, 508WX, 508WY, 508WZ, 508XA, 508XB, 508XC, 508XD, 508XE, 508XF, 508XG, 508XH, 508XI, 508XJ, 508XK, 508XL, 508XM, 508XN, 508XO, 508XP, 508XQ, 508XR, 508XS, 508XT, 508XU, 508XV, 508XW, 508XX, 508XY, 508XZ, 508YA, 508YB, 508YC, 508YD, 508YE, 508YF, 508YG, 508YH, 508YI, 508YJ, 508YK, 508YL, 508YM, 508YN, 508YO, 508YP, 508YQ, 508YR, 508YS, 508YT, 508YU, 508YV, 508YW, 508YX, 508YY, 508YZ, 508ZA, 508ZB, 508ZC, 508ZD, 508ZE, 508ZF, 508ZG, 508ZH, 508ZI, 508ZJ, 508ZK, 508ZL, 508ZM, 508ZN, 508ZO, 508ZP, 508ZQ, 508ZR, 508ZS, 508ZT, 508ZU, 508ZV, 508ZW, 508ZX, 508ZY, 508ZZ	Flammability: UL 94-V0 (plastics) 20A, 125VAC (resistive) 16A, 277VAC (resistive)
CSA	CSA 2.2, 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.11, 2.2.12, 2.2.13, 2.2.14, 2.2.15, 2.2.16, 2.2.17, 2.2.18, 2.2.19, 2.2.20, 2.2.21, 2.2.22, 2.2.23, 2.2.24, 2.2.25, 2.2.26, 2.2.27, 2.2.28, 2.2.29, 2.2.30, 2.2.31, 2.2.32, 2.2.33, 2.2.34, 2.2.35, 2.2.36, 2.2.37, 2.2.38, 2.2.39, 2.2.40, 2.2.41, 2.2.42, 2.2.43, 2.2.44, 2.2.45, 2.2.46, 2.2.47, 2.2.48, 2.2.49, 2.2.50, 2.2.51, 2.2.52, 2.2.53, 2.2.54, 2.2.55, 2.2.56, 2.2.57, 2.2.58, 2.2.59, 2.2.60, 2.2.61, 2.2.62, 2.2.63, 2.2.64, 2.2.65, 2.2.66, 2.2.67, 2.2.68, 2.2.69, 2.2.70, 2.2.71, 2.2.72, 2.2.73, 2.2.74, 2.2.75, 2.2.76, 2.2.77, 2.2.78, 2.2.79, 2.2.80, 2.2.81, 2.2.82, 2.2.83, 2.2.84, 2.2.85, 2.2.86, 2.2.87, 2.2.88, 2.2.89, 2.2.90, 2.2.91, 2.2.92, 2.2.93, 2.2.94, 2.2.95, 2.2.96, 2.2.97, 2.2.98, 2.2.99, 2.2.100, 2.2.101, 2.2.102, 2.2.103, 2.2.104, 2.2.105, 2.2.106, 2.2.107, 2.2.108, 2.2.109, 2.2.110, 2.2.111, 2.2.112, 2.2.113, 2.2.114, 2.2.115, 2.2.116, 2.2.117, 2.2.118, 2.2.119, 2.2.120, 2.2.121, 2.2.122, 2.2.123, 2.2.124, 2.2.125, 2.2.126, 2.2.127, 2.2.128, 2.2.129, 2.2.130, 2.2.131, 2.2.132, 2.2.133, 2.2.134, 2.2.135, 2.2.136, 2.2.137, 2.2.138, 2.2.139, 2.2.140, 2.2.141, 2.2.142, 2.2.143, 2.2.144, 2.2.145, 2.2.146, 2.2.147, 2.2.148, 2.2.149, 2.2.150, 2.2.151, 2.2.152, 2.2.153, 2.2.154, 2.2.155, 2.2.156, 2.2.157, 2.2.158, 2.2.159, 2.2.160, 2.2.161, 2.2.162, 2.2.163, 2.2.164, 2.2.165, 2.2.166, 2.2.167, 2.2.168, 2.2.169, 2.2.170, 2.2.171, 2.2.172, 2.2.173, 2.2.174, 2.2.175, 2.2.176, 2.2.177, 2.2.178, 2.2.179, 2.2.180, 2.2.181, 2.2.182, 2.2.183, 2.2.184, 2.2.185, 2.2.186, 2.2.187, 2.2.188, 2.2.189, 2.2.190, 2.2.191, 2.2.192, 2.2.193, 2.2.194, 2.2.195, 2.2.196, 2.2.197, 2.2.198, 2.2.199, 2.2.200, 2.2.201, 2.2.202, 2.2.203, 2.2.204, 2.2.205, 2.2.206, 2.2.207, 2.2.208, 2.2.209, 2.2.210, 2.2.211, 2.2.212, 2.2.213, 2.2.214, 2.2.215, 2.2.216, 2.2.217, 2.2.218, 2.2.219, 2.2.220, 2.2.221, 2.2.222, 2.2.223, 2.2.224, 2.2.225, 2.2.226, 2.2.227, 2.2.228, 2.2.229, 2.2.230, 2.2.231, 2.2.232, 2.2.233, 2.2.234, 2.2.235, 2.2.236, 2.2.237, 2.2.238, 2.2.239, 2.2.240, 2.2.241, 2.2.242, 2.2.243, 2.2.244, 2.2.245, 2.2.246, 2.2.247, 2.2.248, 2.2.249, 2.2.250, 2.2.251, 2.2.252, 2.2.253, 2.2.254, 2.2.255, 2.2.256, 2.2.257, 2.2.258, 2.2.259, 2.2.260, 2.2.261, 2.2.262, 2.2.263, 2.2.264, 2.2.265, 2.2.266, 2.2.267, 2.2.268, 2.2.269, 2.2.270, 2.2.271, 2.2.272, 2.2.273, 2.2.274, 2.2.275, 2.2.276, 2.2.277, 2.2.278, 2.2.279, 2.2.280, 2.2.281, 2.2.282, 2.2.283, 2.2.284, 2.2.285, 2.2.286, 2.2.287, 2.2.288, 2.2.289, 2.2.290, 2.2.291, 2.2.292, 2.2.293, 2.2.294, 2.2.295, 2.2.296, 2.2.297, 2.2.298, 2.2.299, 2.2.300, 2.2.301, 2.2.302, 2.2.303, 2.2.304, 2.2.305, 2.2.306, 2.2.307, 2.2.308, 2.2.309, 2.2.310, 2.2.311, 2.2.312, 2.2.313, 2.2.314, 2.2.315, 2.2.316, 2.2.317, 2.2.318, 2.2.319, 2.2.320, 2.2.321, 2.2.322, 2.2.323, 2.2.324, 2.2.325, 2.2.326, 2.2.327, 2.2.328, 2.2.329, 2.2.330, 2.2.331, 2.2.332, 2.2.333, 2.2.334, 2.2.335, 2.2.336, 2.2.337, 2.2.338, 2.2.339, 2.2.340, 2.2.341, 2.2.342, 2.2.343, 2.2.344, 2.2.345, 2.2.346, 2.2.347, 2.2.348, 2.2.349, 2.2.350, 2.2.351, 2.2.352, 2.2.353, 2.2.354, 2.2.355, 2.2.356, 2.2.357, 2.2.358, 2.2.359, 2.2.360, 2.2.361, 2.2.362, 2.2.363, 2.2.364, 2.2.365, 2.2.366, 2.2.367, 2.2.368, 2.2.369, 2.2.370, 2.2.371, 2.2.372, 2.2.373, 2.2.374, 2.2.375, 2.2.376, 2.2.377, 2.2.378, 2.2.379, 2.2.380, 2.2.381, 2.2.382, 2.2.383, 2.2.384, 2.2.385, 2.2.386, 2.2.387, 2.2.388, 2.2.389, 2.2.390, 2.2.391, 2.2.392, 2.2.393, 2.2.394, 2.2.395, 2.2.396, 2.2.397, 2.2.398, 2.2.399, 2.2.400, 2.2.401, 2.2.402, 2.2.403, 2.2.404, 2.2.405, 2.2.406, 2.2.407, 2.2.408, 2.2.409, 2.2.410, 2.2.411, 2.2.412, 2.2.413, 2.2.414, 2.2.415, 2.2.416, 2.2.417, 2.2.418, 2.2.419, 2.2.420, 2.2.421, 2.2.422, 2.2.423, 2.2.424, 2.2.425, 2.2.426, 2.2.427, 2.2.428, 2.2.429, 2.2.430, 2.2.431, 2.2.432, 2.2.433, 2.2.434, 2.2.435, 2.2.436, 2.2.437, 2.2.438, 2.2.439, 2.2.440, 2.2.441, 2.2.442, 2.2.443, 2.2.444, 2.2.445, 2.2.446, 2.2.447, 2.2.448, 2.2.449, 2.2.450, 2.2.451, 2.2.452, 2.2.453, 2.2.454, 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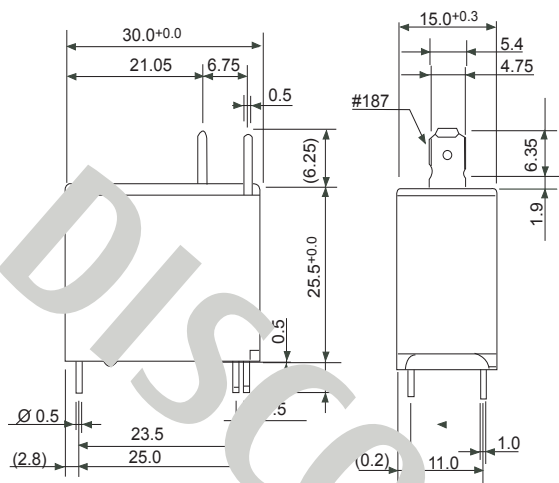
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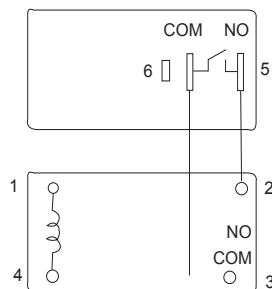
FTR-JR Series

DIMENSIONS

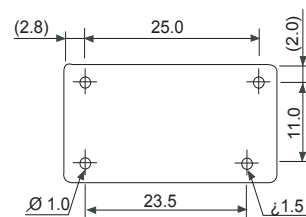
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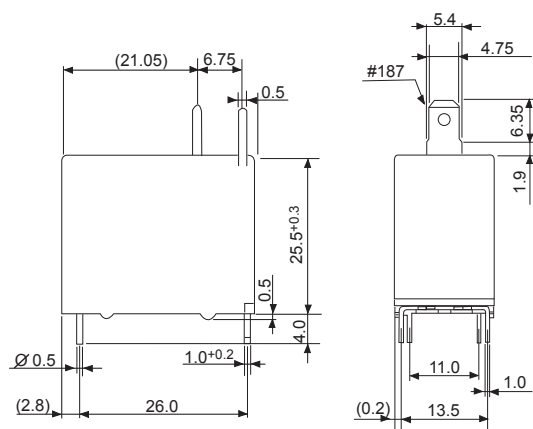
● Schematics (TOP VIEW)



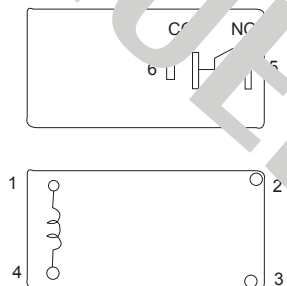
● PC board mounting hole layout (BOTTOM VIEW)



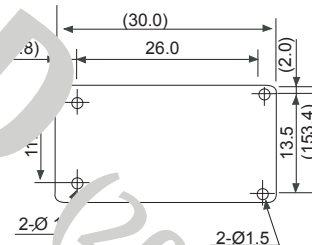
● Dimensions FTR-JC type



● Schematics (TOP VIEW)



● PC board mounting hole layout (BOTTOM VIEW)



Unit: mm

NOTES

DISCONTINUED (2009)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[FTR-JRJC012W](#) [FTR-JRJC018W](#) [FTR-JRJC024W](#) [FTR-JRJB024W](#) [FTR-JRJB018W](#) [FTR-JRJB012W](#)