

PRODUCT DATASHEET

Surfase Mount Fuse

JFC2410TS TIME-LAY FUSE



JFC2410TS TIME-LAY FUSE



Agency Approvals

Time-Lag

RoHS compliant

Conflict free metals

Small size (6.1mm*2.5mm)

AGENCY	AGENCY FILE NUMBER
RI ®	E486200

Descriptions

JFC2410TS series time-lay square Surface Mount fuses are ceramic tube/end cap constructions,RoHScompliant, Halogen Free and lead(Pb) exemptsof the requirements of RoHS Directive(2002/95/EC),with U.S. (UL/CSA) safety agency approvals. Provideboard level primary and secondary circuit protection ina wide variety of applications. With excellent inrushcurrent withstanding capability, excellent reliability forthermal and mechanic shock, also have a high reliabilityand stable solder ability, end caps are available ingold/silver/nickel plated.

Applications

- LED lighting
- Notebook PC
- Battery devices
- LCD/PDP devices
- LCD backlight in verter
- Portable Device
- Power supply
- Networking devices
- PC server
- Cooling fan system

- Storage system
- Telecom system
- Wireless base station
- White goods
- Game console
- Digital camera
 - Office equipment
- Digital camera
- Automotive devices
- Medical equipment
- Industrial equipment

Features

- Wide range of current rating available
- Wide operating temperature range
- Low temperature de-rating
- Tape and Reel for automatic placement

Electrical Characteristics

• Pre-Arcing Time / Current Characteristics:

% of Ampere Rating(In)	Opening Time
100%*ln	4 hours Min
200%*In	120 sec Max
1000%*In	10 ms Min



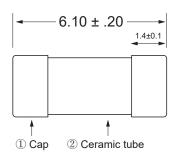
Performance Specification

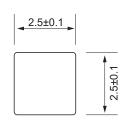
Part Number	Rated Current (A)	Max Voltage Rating(V)	Interrupting Rating	Nominal Cold Resistance (mΩ)	Nominal Melting I²t (A²sec)
JFC2410-0100TS	0.10		50A@250V	3100	0.00138
JFC2410-0250TS	0.25			860	0.145
JFC2410-0500TS	0.50			320	0.275
JFC2410-0750TS	0.75			175	1.240
JFC2410-1100TS	1.00			148	3.500
JFC2410-1150TS	1.50	250V		85	6.305
JFC2410-1200TS	2.00			44	8.950
JFC2410-1250TS	2.50			43	16.025
JFC2410-1300TS	3.00			33	21.560
JFC2410-1315TS	3.15			29	22.750
JFC2410-1350TS	3.50			27	27.050
JFC2410-1400TS	4.00			25	31.808
JFC2410-1500TS	5.00			19	40.250
JFC2410-1600TS	6.00			18	67.245
JFC2410-1630TS	6.30			17	107.55
JFC2410-1700TS	7.00			15	132.78
JFC2410-1800TS	8.00			7.0	235.18
JFC2410-2100TS	10.0			7.0	270.50
JFC2410-2120TS	12.0	125V	100A@125V	7.0	331.52
JFC2410-2150TS	15.0	1201	100A@123V	6.0	375.66
JFC2410-2200TS	20.0			2.3	410.00
JFC2410-2250TS	25.0	72V	500A@72V	1.7	550.00
JFC2410-2300TS	30.0			1.2	900.00

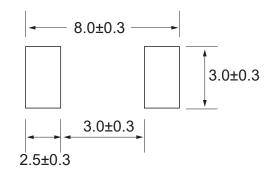


Dimensions and Structure

• Outline Drawing and dimensions (unit : mm)







Recommended pad layout

• Material Details:

NO.	Component	Material
1	Сар	Au Plated Brass Cap
2	Body	Non-Transparent Square Ceramic Tube
3	Fuse element	Cu-Ag Alloy wire

Product Characteristics

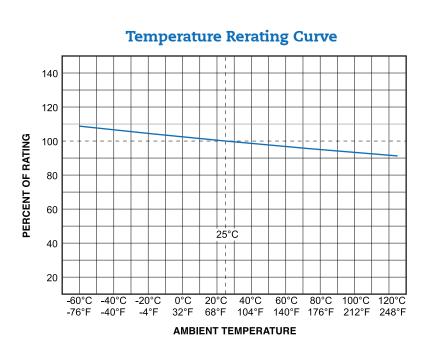
No.	Item	Contain	Reference standard
1	Insulation Resistance	10,000 ohms minimum	MIL-STD-202G, Method 302 Test ConditionA
2	Solderability	T=240°C±5°C, t=5+0/-0.5s, Cover≥95%	MIL-STD-202G, Method 208H
3	Resistance to Soldering Heat	10 sec at 260°C	MIL-STD-202G, Method 210F Test Condition B
4	Thermal Shock	5 cycles, -65°C to +125°C, 15minutes @each extreme	MIL-STD-202G, Method 107G Test Condition B
5	Mechanical Shock	100G's peak for 6 milliseconds, 3 cycles	MIL-STD-202G, Method 213B Test 1
6	Vibration	0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs	MIL-STD-202G, Method 201A
7	Moisture Resistance	10 cycles	MIL-STD-202G, Method 106G
8	Salt Spray	5% salt solution,48hrs	MIL-STD-202G, Method 101E Test Condition B
9	Operating Temperature	-55°C to +125°C	IEC60068-2-1/2

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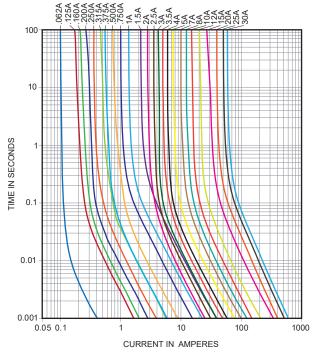


Environmental Characteristic

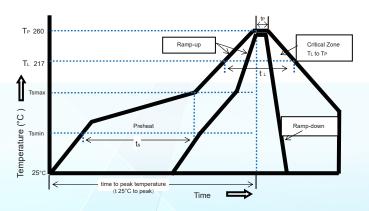
• Company operating temperature of the environment more than 25+/-5[°]C, in the selection of fuse specifications, it needs to consider the impact of the operating environment of the temperature fuse. Photo: temperature derating curve.



Average Time-Current Curve



Recommended Soldering Parameters



Reflow Condition		Pb-Free assembly
Average ramp-up rate(Ts(max)to Tp)		5°C/second max.
Temperature Min (Ts(min))		150°C
Preheat	Temperature Max (Ts(man))	200°C
	Time (Min to Max)(ts)	60~120 seconds
Reflow	Temperature (T∟)	220°C
Reliow	Time Max (T∟)	60 seconds
Peak Temperature (Tp)		260°C max
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature(Tp)		8 minutes max

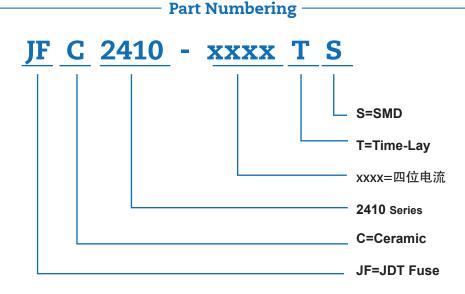
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PACKING

No.	Quantity &Packaging Code
JFC2410TS	1000 fuses/reel
	(12mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481)



OTHERS

- If in use beyond the requirements of the specifications, must pass through the mutual confirmation !
- If the specification is not appropriate, must through consultation between the two sides and by the company to modify.
- It could be in conformance with another file which made by our company.

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