

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

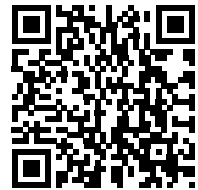
|                      |                           |
|----------------------|---------------------------|
| <b>Part Number:</b>  | SST 7/5K                  |
| <b>Manufacturer:</b> | Bel Fuse Inc.             |
| <b>Package:</b>      | Tape & Reel (TR)          |
| <b>Availability:</b> | Please confirm with sales |

### Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/sst-7-5k.html>

### Request a Quote:

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## Contact Information

Email: [info@antrexco.com](mailto:info@antrexco.com)

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

## Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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EOL-Last Buy Date is March 31, 2021  
Not recommended for new applications. Please see 0680L

## Type SST

### Square Ceramic Surface Mount Slow Blow Fuse

HF  SST Series – 2410 Size

RoHS Compliant

#### Features

- Slow Blow
- Small size, 2410 SMD
- Wide range of current rating from 375mA to 7A
- Wide operating temperature range
- Tape & Reel for auto-insert SMD process
- Compatible with 260°C, IR Pb-free solder process
- Fully compliance with EU Directive 2011/65/EU and amending directive 2015/863 (MSL = 1)
- Halogen Free
- Lead Free
- AEC-Q Compliant
- Meets Bel automotive qualification\*
- \* - Largely based on internal AEC-Q test plan



    
**AEC-Q Compliant**

#### Applications

- Notebook
- LCD monitor
- PC computer
- Office electronic equipment
- Industrial equipment
- Medical equipment
- POE, POE+
- LCD / LED monitor
- Power supply
- LCD / LED TV

LEAD FREE =   
HALOGEN FREE = 

#### Electrical Characteristics (UL/CSA/STD.248-14) Safety Agency Approvals

| Testing Current | Blow Time |         |
|-----------------|-----------|---------|
|                 | Minimum   | Maximum |
| 100%            | 4 Hrs.    | N/A     |
| 200%            | 1 Sec     | 60 Sec  |
| 300%            | 0.2 Sec   | 3 Sec   |
| 800%            | 0.02 Sec  | 0.1 Sec |

| Safety Agency                                                                       | Safety Agency Certificate | Ampere Rating / Voltage Rating | Ampere Range / Volt @ I.R. ability*   |
|-------------------------------------------------------------------------------------|---------------------------|--------------------------------|---------------------------------------|
|  | LR39772                   | 375mA-7A/125V AC<br>125V DC    | 375mA-7A/125V AC @50A<br>125V DC @50A |
|  | E20624                    |                                |                                       |

\*I.R.= Interrupting Rating = Short Circuit Rating(Amps)

#### Physical Specifications

|           |                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Ceramic                                                                                                                                                                                                                                                                                                     |
|           | Terminations : Palladium plated Brass Caps                                                                                                                                                                                                                                                                         |
| Marking   | On Fuse :                                                                                                                                                                                                                                                                                                          |
|           | "Current Rating" in green color,<br>"bel" stamped in end caps.                                                                                                                                                                                                                                                     |
|           | On Label :                                                                                                                                                                                                                                                                                                         |
|           | "bel", "SST", "Current Rating", "Voltage Rating", "Interrupting Rating",<br>"Appropriate Safety Logos" and "  ", "  "(China RoHS compliant). |

## Type SST

Temperature Derating Curve



Average Time Current Curve



Electrical Specifications

| Catalog Number | Ampere Rating | Typical Cold Resistance (ohms) | Volt-drop @100% In (Volt) max. | Voltage and Interrupting Ratings                                                        | Melting I <sup>2</sup> T <10 m Sec (A <sup>2</sup> Sec) | Melting I <sup>2</sup> T @10 In (A <sup>2</sup> Sec) | Maximum Power Dissipation (W) | Agency Approvals                                                                      |                                                                                       |
|----------------|---------------|--------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |               |                                |                                |                                                                                         |                                                         |                                                      |                               |  |  |
| SST 375        | 375mA         | 0.72                           | 0.53                           | See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings | 0.15                                                    | 0.15                                                 | 0.25                          | Y                                                                                     | Y                                                                                     |
| SST 500        | 500mA         | 0.49                           | 0.52                           |                                                                                         | 0.27                                                    | 0.28                                                 | 0.30                          | Y                                                                                     | Y                                                                                     |
| SST 625        | 625mA         | 0.40                           | 0.50                           |                                                                                         | 0.45                                                    | 0.47                                                 | 0.35                          | Y                                                                                     | Y                                                                                     |
| SST 750        | 750mA         | 0.25                           | 0.42                           |                                                                                         | 0.66                                                    | 0.69                                                 | 0.39                          | Y                                                                                     | Y                                                                                     |
| SST 1          | 1A            | 0.162                          | 0.35                           |                                                                                         | 1.2                                                     | 1.3                                                  | 0.47                          | Y                                                                                     | Y                                                                                     |
| SST 1.5        | 1.5A          | 0.081                          | 0.26                           |                                                                                         | 3                                                       | 3.1                                                  | 0.62                          | Y                                                                                     | Y                                                                                     |
| SST 2          | 2A            | 0.061                          | 0.24                           |                                                                                         | 5                                                       | 5.7                                                  | 0.68                          | Y                                                                                     | Y                                                                                     |
| SST 2.5        | 2.5A          | 0.044                          | 0.22                           |                                                                                         | 9                                                       | 9                                                    | 0.74                          | Y                                                                                     | Y                                                                                     |
| SST 3          | 3A            | 0.033                          | 0.20                           |                                                                                         | 14                                                      | 16                                                   | 0.80                          | Y                                                                                     | Y                                                                                     |
| SST 3.5        | 3.5A          | 0.027                          | 0.19                           |                                                                                         | 18                                                      | 20                                                   | 0.84                          | Y                                                                                     | Y                                                                                     |
| SST 3.75       | 3.75A         | 0.025                          | 0.19                           |                                                                                         | 21                                                      | 24                                                   | 0.86                          | Y                                                                                     | Y                                                                                     |
| SST 4          | 4A            | 0.024                          | 0.19                           |                                                                                         | 23                                                      | 26                                                   | 0.88                          | Y                                                                                     | Y                                                                                     |
| SST 5          | 5A            | 0.017                          | 0.18                           |                                                                                         | 38                                                      | 43                                                   | 0.95                          | Y                                                                                     | Y                                                                                     |
| SST 6          | 6A            | 0.013                          | 0.18                           |                                                                                         | 56                                                      | 63                                                   | 1.02                          | Y                                                                                     | Y                                                                                     |
| SST 6.3        | 6.3A          | 0.012                          | 0.17                           |                                                                                         | 62                                                      | 70                                                   | 1.03                          | Y                                                                                     | Y                                                                                     |
| SST 7          | 7A            | 0.011                          | 0.16                           |                                                                                         | 80                                                      | 90                                                   | 1.08                          | Y                                                                                     | Y                                                                                     |

Consult manufacturer for other ratings

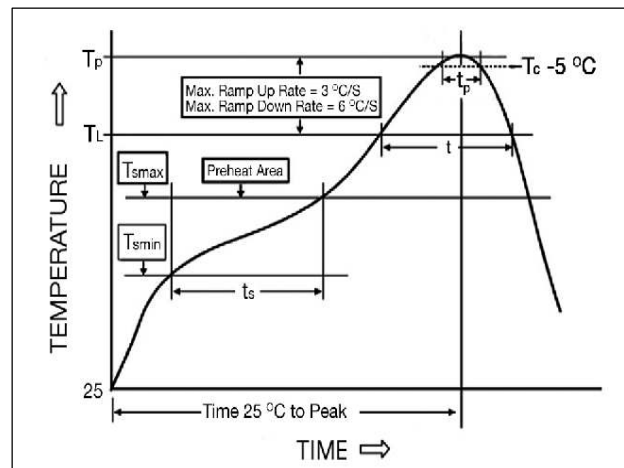
## Type SST

## Environmental Specifications

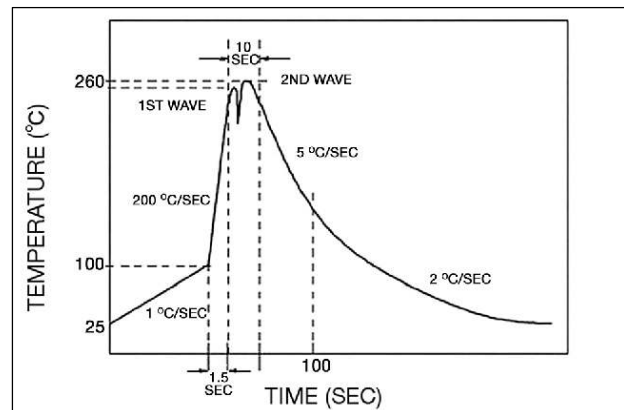
|                            |                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Shock Resistance           | MIL-STD-202G, Method 213B, Test Condition 1<br>(100 G's peak for 6 milliseconds; Sawtooth waveform)                                               |
| Vibration Resistance       | MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).                                                                                 |
| Salt Spray Resistance      | MIL-STD-202G, Method 101E, Test Condition B (48 hrs).                                                                                             |
| Insulation Resistance      | MIL-STD-202G, Method 302, Test Condition A<br>(After Opening) 10,000 ohms minimum.                                                                |
| Solderability              | MIL-STD-202G, Method 208H                                                                                                                         |
| Resistance to solder Heat  | MIL-STD-202G, Method 210F, Test Condition C. Top Side (260°C, 20 sec)<br>MIL-STD-202G, Method 210F, Test Condition D. Bottom Side (260°C, 10 sec) |
| Thermal Shock              | MIL-STD-202G, Method 107G, Test Condition B<br>(-65°C to +125°C).                                                                                 |
| Operating Temperature      | -55°C to +125°C                                                                                                                                   |
| Moisture Sensitivity Level | 1 ( According to IPC J-Std-020)                                                                                                                   |

## Soldering Parameters

| IR Reflow Profile (IPC/JEDEC J-STD-020D)                                                        |                 |
|-------------------------------------------------------------------------------------------------|-----------------|
| <b>Preheat &amp; Soak</b>                                                                       |                 |
| Temperature min (T <sub>min</sub> )                                                             | 150°C           |
| Temperature max (T <sub>max</sub> )                                                             | 200°C           |
| Time (T <sub>min</sub> to T <sub>max</sub> ) (ts)                                               | 60-120 seconds  |
| Average ramp-up rate (T <sub>max</sub> to T <sub>p</sub> )                                      | 3°C/second max. |
| Liquidous temperature (T <sub>L</sub> )                                                         | 217°C           |
| Time at liquidous (t <sub>L</sub> )                                                             | 60-150 seconds  |
| Peak temperature (T <sub>p</sub> )                                                              | 260°C max       |
| Time (t <sub>p</sub> ) within 5°C of the specified classification temperature (T <sub>c</sub> ) | 30 seconds      |
| Average ramp-down rate (T <sub>p</sub> to T <sub>max</sub> )                                    | 6°C/second max. |
| Time 25°C to peak temperature                                                                   | 8 minutes max.  |



| Lead-free Wave Soldering Profile                   |                                              |
|----------------------------------------------------|----------------------------------------------|
| Wave Soldering Parameter                           |                                              |
| Average ramp-up rate                               | 200°C / second                               |
| Heating rate during preheat                        | typical 1 - 2°C / second<br>Max 4°C / second |
| Final preheat temperature                          | within 125°C of soldering temperature        |
| Peak temperature T <sub>p</sub>                    | 260°C                                        |
| Time within +0°C / -5°C of actual peak temperature | 10 seconds                                   |
| Ramp-down rate                                     | 5°C / second max.                            |



# Type SST

## Fuse FGNO Explanation

0680 - [XXXX] X XX

0680=SST; [XXXX]=Ampere Rating; XX=See Ordering Information as below

| Fraction | Decimal | Milliamps | Bel FGNO[XXXX] |
|----------|---------|-----------|----------------|
| 3/8      | 0.375   | 375       | 0375           |
| 1/2      | .500    | 500       | 0500           |
|          | .625    | 625       | 0625           |
| 3/4      | .750    | 750       | 0750           |
|          |         |           |                |
|          |         |           |                |
|          |         |           |                |
|          |         |           |                |
|          |         |           |                |
|          |         |           |                |
|          |         |           |                |
|          |         |           |                |

| Fraction | Decimal | Amps | Bel FGNO[XXXX] |
|----------|---------|------|----------------|
|          | 1.0     | 1    | 1000           |
| 1-1/2    | 1.5     | 1.5  | 1500           |
|          | 2.0     | 2    | 2000           |
| 2-1/2    | 2.5     | 2.5  | 2500           |
|          | 3.0     | 3    | 3000           |
| 3-1/2    | 3.5     | 3.5  | 3500           |
|          | 3.75    | 3.75 | 3750           |
|          | 4.0     | 4    | 4000           |
|          | 5.0     | 5    | 5000           |
|          | 6.0     | 6    | 6000           |
|          | 6.3     | 6.3  | 6300           |
|          | 7.0     | 7    | 7000           |

## Mechanical Dimensions



## Ordering Information



## Packaging

| Packaging Tape & Reel                        | Packaging Specification | Quantity | Quantity & Packaging Code |
|----------------------------------------------|-------------------------|----------|---------------------------|
| 12 mm wide tape with 13 inches Diameter reel | EIA Standard 481-E      | 5000     | 05                        |
| 12 mm wide tape with 7 inches Diameter reel  | EIA Standard 481-E      | 1000     | 01                        |