

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>Part Number:</b>  | 0679H2500-01                                |
| <b>Manufacturer:</b> | Bel Fuse Inc.                               |
| <b>Package:</b>      | Tape & Reel (TR), Cut Tape (CT), Digi-Reel® |
| <b>Availability:</b> | Please confirm with sales                   |

**Product Page:**

<https://antrexco.com/product/details/bel-fuse-inc/0679h2500-01.html>

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### Contact Information

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### Quality & Trust

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**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

# Type 0679H

## Square Ceramic Surface Mount Quick Acting Fuse

HF 0679H Series – 2410 Size

RoHS Compliant

### Features

- Quick Acting, 2410 SMD
- Compatible with 260°C, IR Pb-free solder process
- Wide range of current rating from 250mA to 15A
- Wide operating temperature range, -55°C to 125°C
- Tape & Reel for auto-insert SMD process
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863, Compliant with exemption 7(a)
- Halogen Free, (MSL = 1)
- 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

HALOGEN FREE = HF

### Electrical Characteristics

(UL/CSA/STD. 248-14)

| Testing Current | Blow Time |         |
|-----------------|-----------|---------|
|                 | Minimum   | Maximum |
| 100%            | 4 Hrs.    | N/A     |
| 200%            | N/A       | 5 Sec   |

(250mA and 12.5A follow to GB/T9364.7-2016)

| Testing Current | Blow Time |         |
|-----------------|-----------|---------|
|                 | Minimum   | Maximum |
| 100%            | 4 Hrs.    | N/A     |
| 200%            | N/A       | 120 Sec |
| 1000%           | N/A       | 100ms   |

### Safety Agency Approvals

| Safety Agency | Safety Agency Certificate                                                       | Ampere Rating/<br>Voltage Rating                         | Ampere Range / Volt<br>@ I.R. ability*                                                                            |
|---------------|---------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| UL            | E506667                                                                         | 250mA-3A/350V AC<br>72V DC<br>3.5A-15A/350V AC<br>60V DC | 250mA-3A/350V@ 50A AC<br>72V@100A DC<br>3.5A-5A/350V@50A AC<br>60V@150A DC<br>6.3A-15A/350V@50A-AC<br>60V@100A DC |
| TUV           | R 50368185<br>Tested according to<br>IEC 60127-1:2006+A1+A2<br>IEC 60127-7:2015 | 250mA-3A/350V AC<br>72V DC<br>3.5A-15A/350V AC<br>60V DC | 250mA-3A/350V@ 50A AC<br>72V@100A DC<br>3.5A-5A/350V@50A AC<br>60V@150A DC<br>6.3A-15A/350V@50A-AC<br>60V@100A DC |
| CQC           | CQC25012495846                                                                  | 250mA, 12.5A/100V AC                                     | 250mA, / 100V@35A AC<br>12.5A/ 100V@125A AC                                                                       |

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

### Physical Specifications

|           |                                                                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Ceramic<br>Terminations : Silver Plated Caps<br>On Fuse :                                                                                                                                                                                 |
| Marking   | "Current Rating", "Q", "H"—laser marked on ceramic tube,<br>"bel" stamped in end caps.<br>On Label :<br>"bel", "0679H", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate<br>Safety Logos" and " " (China RoHS compliant). |

Specifications subject to change without notice

## Environmental Specifications

|                            |                                                                                                                                                   |                              |                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------|
| Shock Resistance           | MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)                                                  | High temperature storage     | MIL-STD-202 Method 108                                                    |
| Vibration Resistance       | MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).                                                                                 | Temperature cycling          | JESD22 Method JA-104, Test Condition B                                    |
| Salt Spray Resistance      | MIL-STD-202G, Method 101E, Test Condition B (48 hrs.).                                                                                            | Biased humidity              | MIL-STD-202 Method 103, 85C/85% RH with 10% operating power for 1000 hrs. |
| Insulation Resistance      | MIL-STD-202G, Method 302, Test Condition A (After Opening) 10,000 ohms minimum.                                                                   | Operational life             | MIL-STD-202 Method 108, Test Condition D                                  |
| Solderability              | MIL-STD-202G, Method 208H                                                                                                                         | Resistance to solvents       | MIL-STD-202 Method 215                                                    |
| 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) | Mechanical shock             | MIL-STD-202 Method 213, Test Condition C                                  |
| Thermal Shock              | MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).                                                                                    | Vibration                    | MIL-STD-202 Method 204                                                    |
| Operating Temperature      | -55°C to +125°C                                                                                                                                   | Resistance to soldering heat | MIL-STD-202 Method 210, Test condition B                                  |
| Moisture Sensitivity Level | 1 (According to IPC J-Std-020)                                                                                                                    | Thermal shock                | MIL-STD-202 Method 107                                                    |
|                            |                                                                                                                                                   | Solderability                | J-STD-002                                                                 |
|                            |                                                                                                                                                   | Board flex(SMD)              | AEC-Q200-005                                                              |
|                            |                                                                                                                                                   | Terminal strength            | AEC-Q200-006                                                              |
|                            |                                                                                                                                                   | Electrical characterization  | 3 temperature electrical                                                  |

## Electrical Specifications

| Part Number  | Ampere Rating (A) | Typical Cold Resistance (ohms) | Volt-drop @100% In (Volt) max. | Voltage and Interrupting Ratings                                                        | Melting I <sup>2</sup> T <10m 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                                                                    |                                                                                     |                                                                                     |
|--------------|-------------------|--------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                   |                                |                                |                                                                                         |                                                        |                                                      |                               |  |  |  |
| 0679H0250-XX | 250mA             | 0.55                           | 0.530                          | See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings | 0.01                                                   | 0.02                                                 | 0.13                          | Y                                                                                   | Y                                                                                   | Y                                                                                   |
| 0679H0375-XX | 375mA             | 0.32                           | 0.480                          |                                                                                         | 0.04                                                   | 0.04                                                 | 0.18                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H0500-XX | 500mA             | 0.22                           | 0.470                          |                                                                                         | 0.08                                                   | 0.08                                                 | 0.24                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H0630-XX | 630mA             | 0.17                           | 0.410                          |                                                                                         | 0.15                                                   | 0.15                                                 | 0.26                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H0750-XX | 750mA             | 0.14                           | 0.380                          |                                                                                         | 0.24                                                   | 0.26                                                 | 0.29                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H1000-XX | 1A                | 0.09                           | 0.280                          |                                                                                         | 0.51                                                   | 0.54                                                 | 0.28                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H1250-XX | 1.25A             | 0.068                          | 0.250                          |                                                                                         | 0.21                                                   | 0.22                                                 | 0.31                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H1500-XX | 1.5A              | 0.053                          | 0.250                          |                                                                                         | 0.32                                                   | 0.29                                                 | 0.38                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H2000-XX | 2A                | 0.035                          | 0.240                          |                                                                                         | 0.62                                                   | 0.68                                                 | 0.48                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H2500-XX | 2.5A              | 0.028                          | 0.240                          |                                                                                         | 0.96                                                   | 1.13                                                 | 0.60                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H3000-XX | 3A                | 0.022                          | 0.220                          |                                                                                         | 1.6                                                    | 1.8                                                  | 0.66                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H3500-XX | 3.5A              | 0.019                          | 0.220                          |                                                                                         | 2.0                                                    | 2.2                                                  | 0.77                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H4000-XX | 4A                | 0.018                          | 0.220                          |                                                                                         | 3.1                                                    | 3.5                                                  | 0.88                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H5000-XX | 5A                | 0.014                          | 0.200                          |                                                                                         | 5.3                                                    | 5.5                                                  | 1.00                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H6300-XX | 6.3A              | 0.011                          | 0.190                          |                                                                                         | 8.7                                                    | 8.3                                                  | 1.20                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H7000-XX | 7A                | 0.010                          | 0.175                          |                                                                                         | 11.1                                                   | 10.8                                                 | 1.23                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H8000-XX | 8A                | 0.0085                         | 0.170                          |                                                                                         | 14.8                                                   | 14.1                                                 | 1.36                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H9100-XX | 10A               | 0.0064                         | 0.150                          |                                                                                         | 25.7                                                   | 25.7                                                 | 1.50                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H9120-XX | 12A               | 0.0054                         | 0.140                          |                                                                                         | 41.0                                                   | 38.9                                                 | 1.68                          | Y                                                                                   | Y                                                                                   |                                                                                     |
| 0679H9125-XX | 12.5A             | 0.0052                         | 0.170                          |                                                                                         | 41.0                                                   | 42.1                                                 | 2.13                          | Y                                                                                   |                                                                                     | Y                                                                                   |
| 0679H9150-XX | 15A               | 0.0038                         | 0.130                          |                                                                                         | 76.7                                                   | 103.5                                                | 1.95                          | Y                                                                                   | Y                                                                                   |                                                                                     |

Consult manufacturer for other ratings

XX - Packaging code (see "ordering information")

## NOTES:

All tests were conducted with the fuses soldered to a printed circuit boards with a nominal thickness of 1.6 mm. The copper test circuit trace was a printed circuit with an overall length of 100 mm, copper thickness/width as described below. The printed circuit boards were mounted by screws to a test fixture having brass blocks for connection of the test leads. All samples were soldered to the test boards by the manufacturer.

| Fuse rating | Test Board Trace Dimensions |
|-------------|-----------------------------|
| 250mA-5A    | 1 oz. copper, 5.0mm wide.   |
| 6.3A-15A    | 3 oz. copper, 10mm wide.    |



Specifications subject to change without notice

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## Temperature Derating Curve



## Average Time Current Curve



## Soldering Parameters

| IR Reflow Profile (IPC/JEDEC J-STD-020D)                                         |                  |
|----------------------------------------------------------------------------------|------------------|
| <b>Preheat &amp; Soak</b>                                                        |                  |
| Temperature min ( $T_{smin}$ )                                                   | 150 °C           |
| Temperature max ( $T_{smax}$ )                                                   | 200 °C           |
| Time ( $T_{smin}$ to $T_{smax}$ ) ( $t_s$ )                                      | 60-120 seconds   |
| Average ramp-up rate ( $T_{smax}$ to $T_p$ )                                     | 3 °C/second max. |
| Liquidous temperature ( $T_L$ )                                                  | 217 °C           |
| Time at liquidous ( $t_L$ )                                                      | 60-150 seconds   |
| Peak temperature ( $T_p$ )                                                       | 260 °C max       |
| Time ( $t_p$ ) within 5 °C of the specified classification temperature ( $T_c$ ) | 30 seconds       |
| Average ramp-down rate ( $T_p$ to $T_{smax}$ )                                   | 6 °C/second max. |
| Time 25 °C to peak temperature                                                   | 8 minutes max.   |

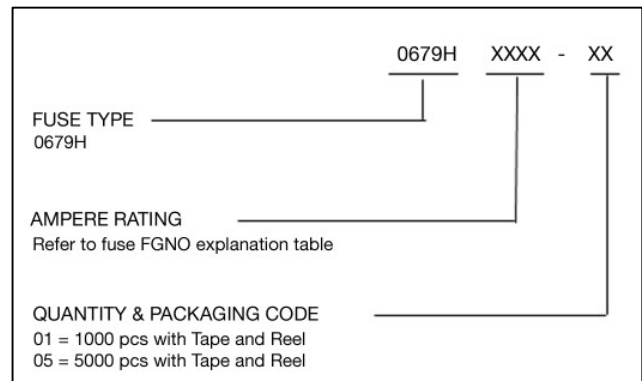


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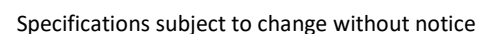
**0679H=0679H; [XXXX]=Ampere Rating; XX=See Ordering Information as below**

| Fraction | Decimal | Amps | Bel FGNO[XXXX] |
|----------|---------|------|----------------|
| 1-1/4    | 1.25    | 1.25 | 1250           |
| 1-1/2    | 1.50    | 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           |
|          | 4.0     | 4    | 4000           |
|          | 5.0     | 5    | 5000           |
|          | 6.3     | 6.3  | 6300           |
|          | 7.0     | 7    | 7000           |
|          | 8.0     | 8    | 8000           |
|          |         | 10   | 9100           |
|          |         | 12   | 9120           |
|          |         | 12.5 | 9125           |
|          |         | 15   | 9150           |

## Ordering Information



| 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                        |



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