

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: GSAP 15-R
Manufacturer: Bel Fuse Inc.
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/gsap-15-r.html>

Request a Quote:

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Contact Information

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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.

500mA-15A GSAP EOL – Last Buy Date is Aug 31, 2021
No replacements for the axial leaded fuses

Type GSA / GSAP

Slow Blow Fuse Series

HF **Pb** GSA/GSAP Series, 6x32mm Ceramic Tube Slow Blow Fuse

RoHS 2 Compliant

Description

6x32mm Slow Blow, ceramic tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.

Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk packing available
- RoHS 2 compliant
- Halogen Free
- Lead Free

Applications

Provide individual protection for components or internal circuits.

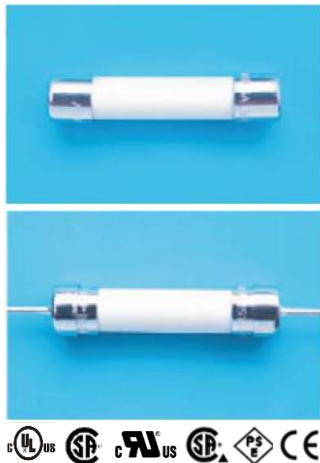
- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = **Pb**

HALOGEN FREE = **HF**

Physical Specifications

Materials	Body : Ceramic
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "GSA", "Current Rating", "Voltage Rating",
	"Appropriate Safety Logos", "✓" (RoHS 2 compliant)
	On Label :
	"bel", "GSA" or "GSAP", "Current Rating", "Voltage Rating", "Interrupting Rating",
	"Appropriate Safety Logos" and "✓", "Ⓢ" (China RoHS compliant).



Electrical Characteristics (UL/CSA STD.248-14)

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 hrs.	N/A
135%	N/A	1 Hr.
200%	5 sec	30 sec

Safety Agency Approvals

Safety Agency	Safety Agency Certificate	Voltage Rating (V)	Ampere Range / Volt @ I.R. ability*
   	E20624 LR39772	500mA-15A/ 250V AC	500mA-8A/125V AC@10,000A 500mA-1A/250V AC@35A >1A-3.5A/250V AC@100A >3.5A-8A/250V AC@200A
			10A-15A/125V AC@10,000A 10A-15A/250V AC@750A
	JET1037-31003-1010 JET1037-31003-1011		1A-5A/125V AC@500A
	JET1037-31003-1007		>5A-15A/125V AC@300A
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

Type GSA / GSAP

2 / 4

Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (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 (After Opening) 10,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition B. (260+/-5°C, 10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Terminal Strength	IEC-68-2-21

Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100%In (Volt) max.	Voltage and Interrupting Ratings	Melting I ² T <10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals				
								UL	SP	UL	SP	UL
GSA(P) 500-R	500mA	1.38	1.07	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	4.4	5.4	0.78	Y	Y			
GSA(P) 600-R	600mA	1.05	0.98		6.9	8.5	0.82	Y	Y			
GSA(P) 700-R	700mA	0.648	0.69		8.5	11	0.84	Y	Y			
GSA(P) 750-R	750mA	0.642	0.68		10	12	0.85	Y	Y			
GSA(P) 1-R	1A	0.374	0.59		16	21	0.91	Y	Y			Y
GSA(P) 1.25-R	1.25A	0.248	0.43		25	32	0.96	Y	Y			Y
GSA(P) 1.6-R	1.6A	0.155	0.38		39	50	1.01	Y	Y			Y
GSA(P) 2-R	2A	0.115	0.36		61	79	1.06	Y	Y			Y
GSA(P) 2.5-R	2.5A	0.079	0.29		94	123	1.12	Y	Y			Y
GSA(P) 3-R	3A	0.058	0.27		146	192	1.18	Y	Y			Y
GSA(P) 4-R	4A	0.039	0.23		226	300	1.24	Y	Y			Y
GSA(P) 5-R	5A	0.029	0.22		349	469	1.31	Y	Y			Y
GSA(P) 6-R	6A	0.018	0.19		286	455	1.61	Y	Y			Y
GSA(P) 7-R	7A	0.016	0.18		372	592	1.81	Y	Y			Y
GSA(P) 8-R	8A	0.013	0.17		483	769	1.95	Y	Y			Y
GSA(P) 10-R	10A	0.010	0.17		817	1300	2.26			Y	Y	Y
GSA(P) 12-R	12A	0.008	0.15		1277	2031	2.56			Y	Y	Y
GSA(P) 15-R	15A	0.006	0.15		2123	3377	2.96			Y	Y	Y

Consult manufacturer for other ratings

GSAP
EOL–

Last Buy Date is
Aug 31, 2021



Specifications subject to change without notice

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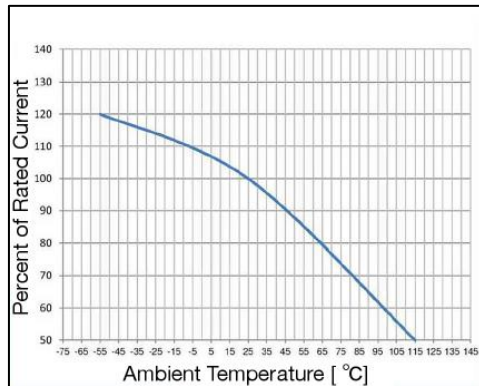
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Rev. GSA/GSAP May31 2021

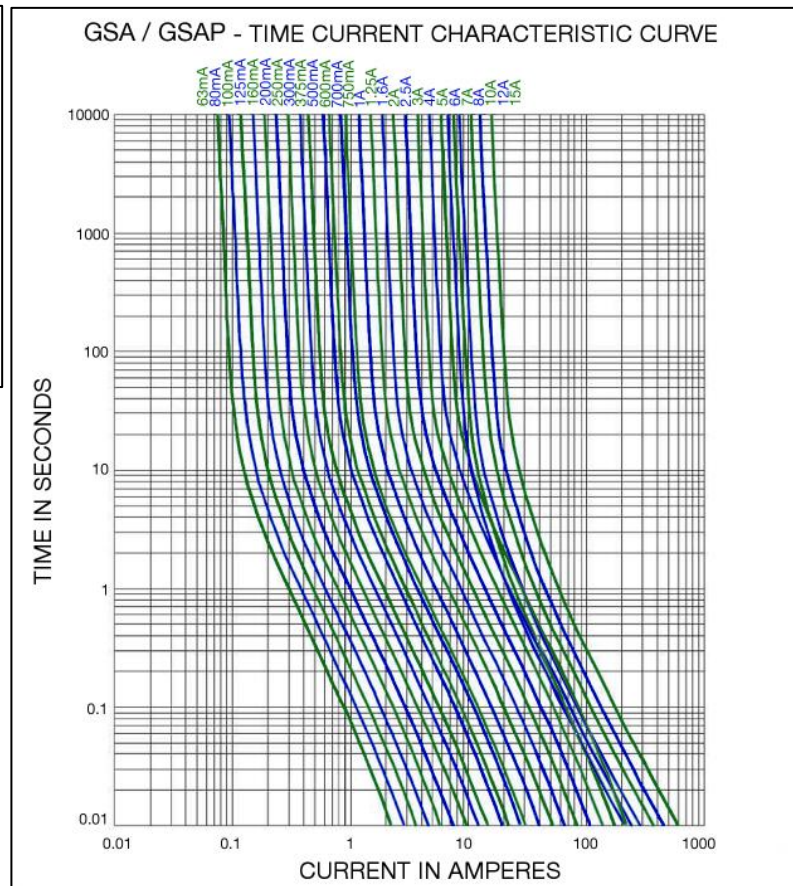
Type GSA / GSAP

3 / 4

Temperature Derating Curve

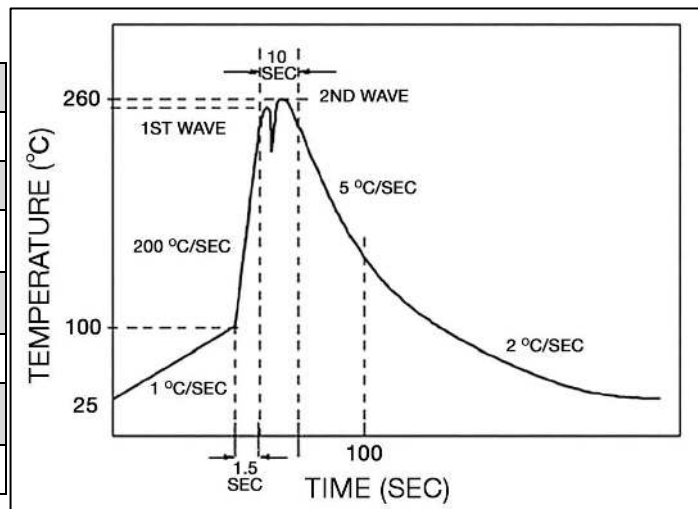


Average Time Current Curve



Soldering parameters

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



Type GSA / GSAP

Fuse FGNO Explanation

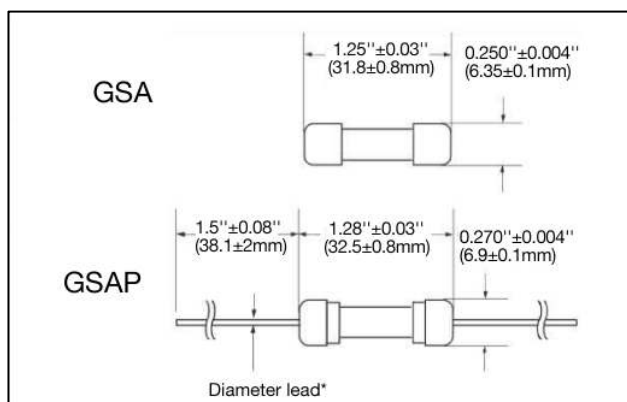
06X6 R [XXXX] -XX

0606R=GSA/0616R=GSAP; [XXXX]=Ampere Rating; XX=See Ordering Information as below

[illegible]

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
	1.60	1.6	1600
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.0	3	3000
	4.0	4	4000
	5.0	5	5000
	6.0	6	6000
	7.0	7	7000
	8.0	8	8000
		10	9100
		12	9120
		15	9150

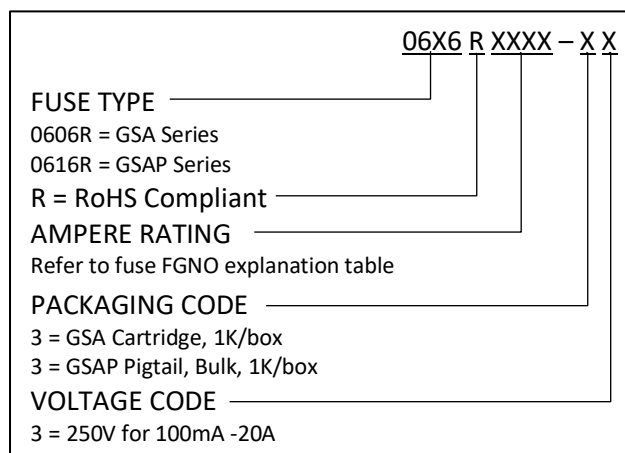
Mechanical Dimensions



*Diameter lead 0.032" $\pm$ 0.002" for 5A and less

*Diameter lead 0.039" $\pm$ 0.002" for 6A and above

Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	1000	33	N/A
Bulk (Pigtail Type)	N/A	1000	33	N/A



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