

Type 0698Q

Quick Acting Radial Lead Micro Fuse Series

HF (Pb) 0698Q Series

RoHS 6 Compliant

Description

Radial lead, quick act type, with enhanced voltage ratings (350VAC; 140VDC) and Breaking Capacity. Designed and Certified to UL 248-14.

Features

- Enhanced breaking capacity
- Enhanced operating rated voltage-350VAC; 140VDC
- RoHS compliant without exemption
- Halogen Free
- Leadfree

Applications

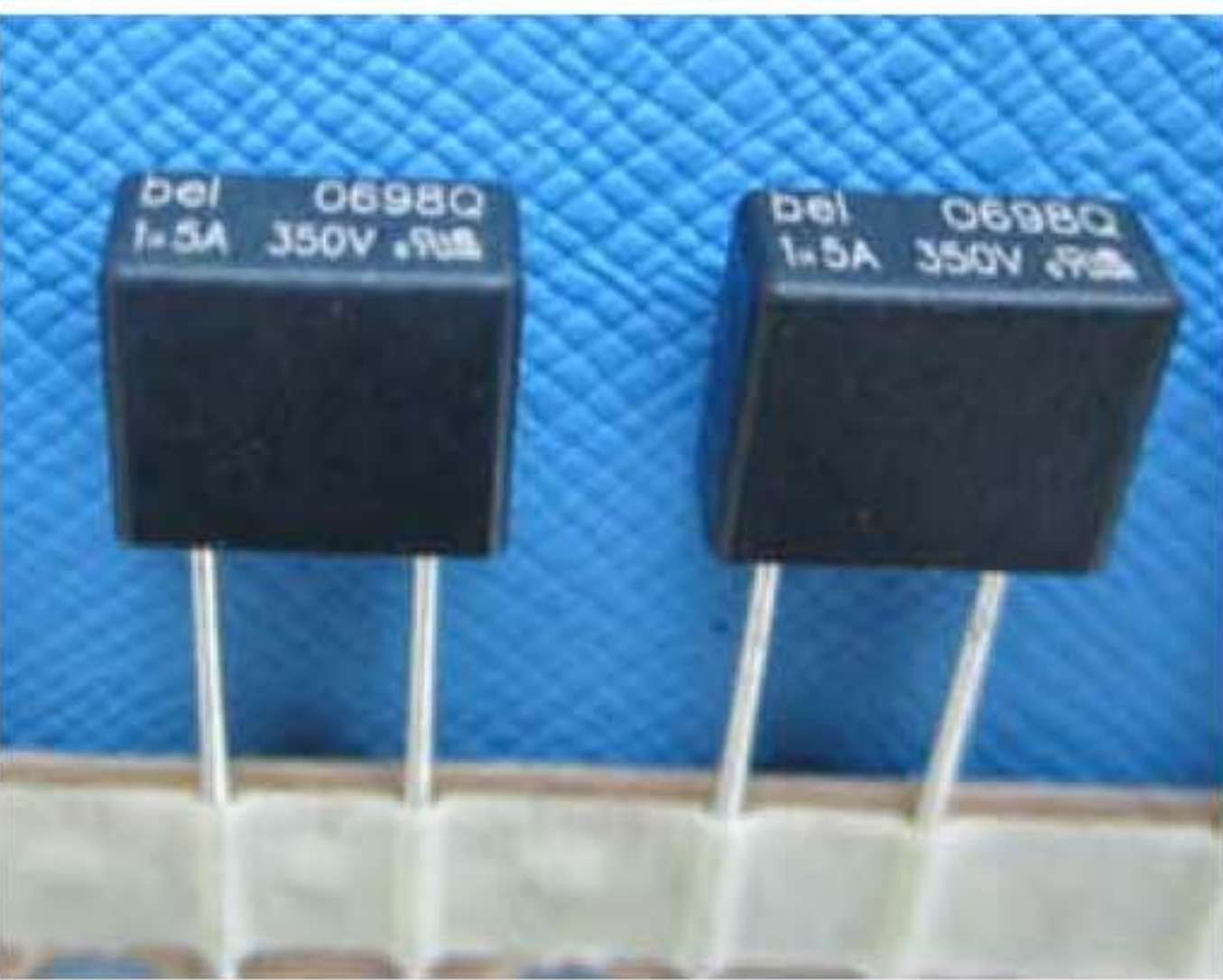
Provide individual protection for components or internal circuits.

- Lighting appliance
- Telecom products
- Battery charger
- Power supply
- Monitors
- Adapter

LEAD FREE = (Pb)
HALOGEN FREE = HF

Physical Specifications

Materials	Base and Cover : Black thermoplastic, UL 94-V0
	Pins : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "0698Q", "Current Rating", "350V" & "cULus"
	On Label :
	"bel", "0698Q", "Current Rating", "Voltage Rating", "cULus", "CE", "e", "RoHS", "HF", "Pb", and interrupting Rating.



Electrical Characteristics(UL / CSA STANDARD 248-14)

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

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	VOLTAGE RATING (V)	AMPERE RANGE / VOLT @ I.R. ABILITY*
cULus	E20624	1.5A-6.3A / 350V AC 140V DC	1.5A-6.3A / 350V AC @ 100A 140V DC @ 150A

* I.R. = INTERRUPTING RATING = SHORT CIRCUIT RATING (AMPS)

Specifications subject to change without notice



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Environmental Specifications

Vibration Resistance	MIL-STD-202G, Method 201A(10-55 Hz X 3 axis / no load).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B(48 hrs).
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition C. Top Side.(260 °C,20 sec)
Moisture Resistance	MIL-STD-202G, Method 202G, Method 106G
Operating Temperature	-55 °C to +125 °C

Electrical Specifications

Part Number	Ampere Rating	Typical Cold Resistance (ohm)	Typical 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
								
0698Q1500-XX	1.5A	0.057	0.17	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.64	0.61	0.18	Y
0698Q2000-XX	2A	0.039	0.15		1.20	1.30	0.25	Y
0698Q2500-XX	2.5A	0.028	0.12		2.59	2.50	0.25	Y
0698Q3150-XX	3.15A	0.022	0.11		4.90	4.96	0.31	Y
0698Q4000-XX	4A	0.016	0.10		3.95	4.74	0.35	Y
0698Q5000-XX	5A	0.012	0.098		6.04	7.25	0.42	Y
0698Q6300-XX	6.3A	0.009	0.091		12.66	14.92	0.47	Y

Consult manufacturer for other ratings
XX - Packaging code (see "ordering information")

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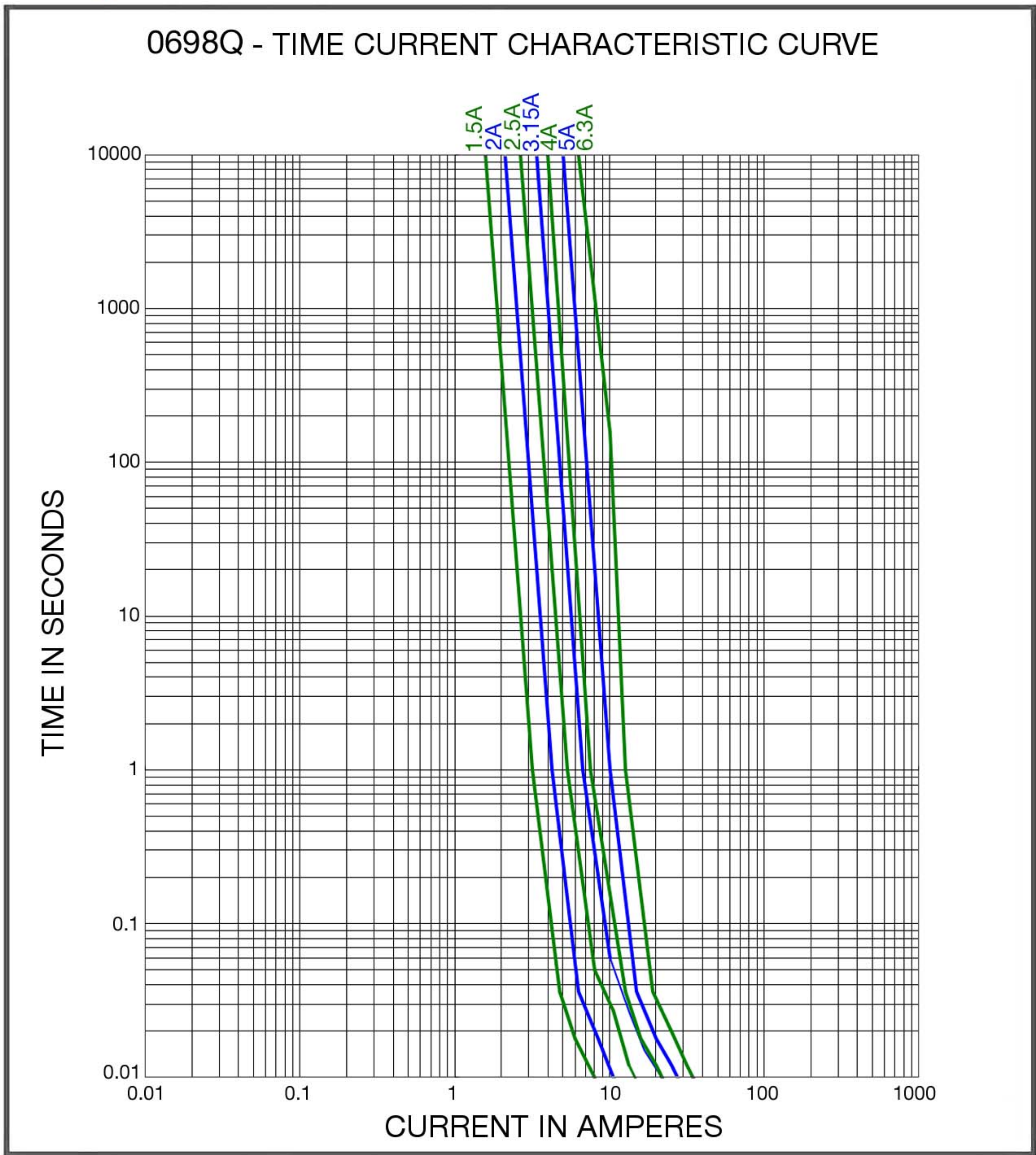
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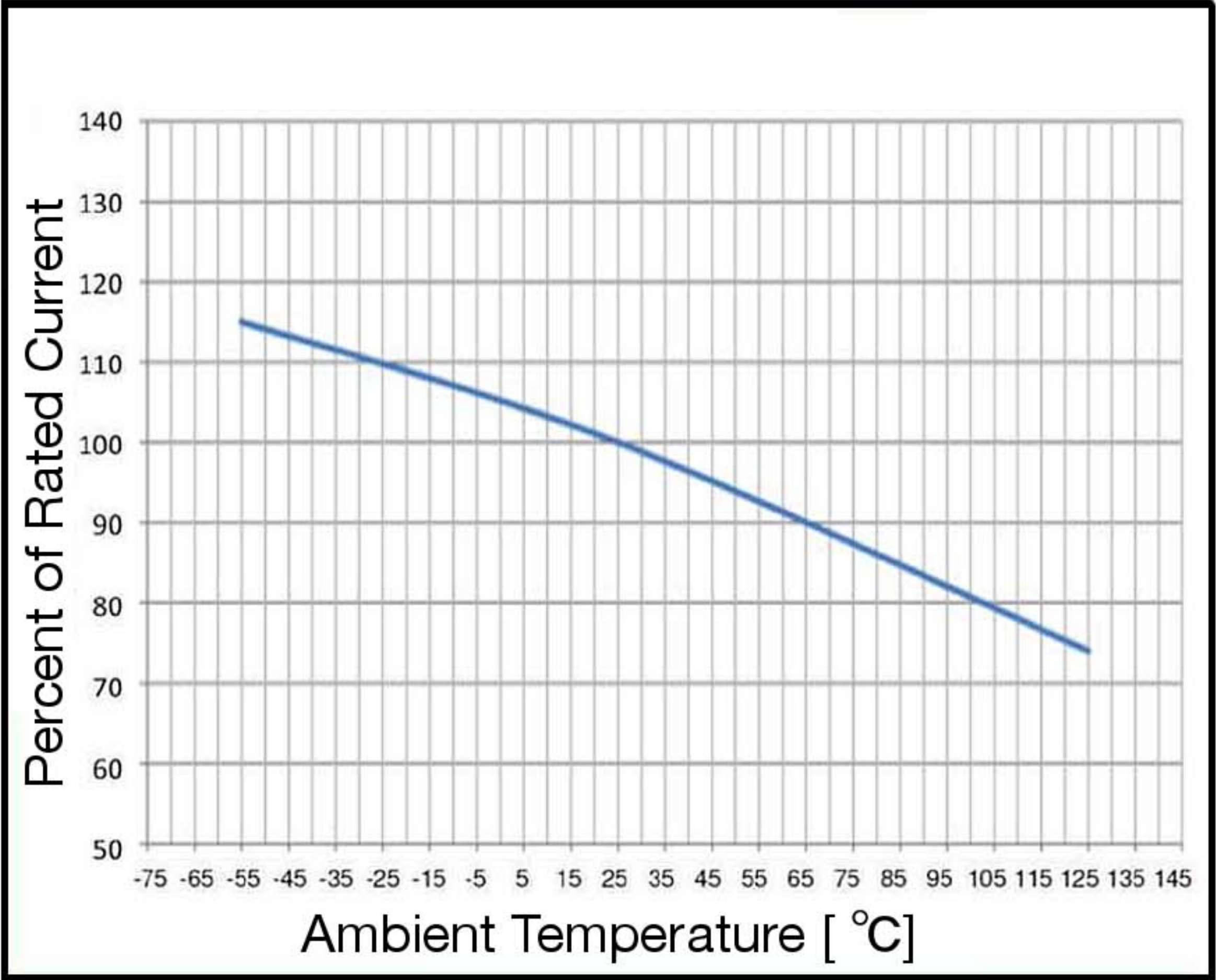
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Average Time Current Curve

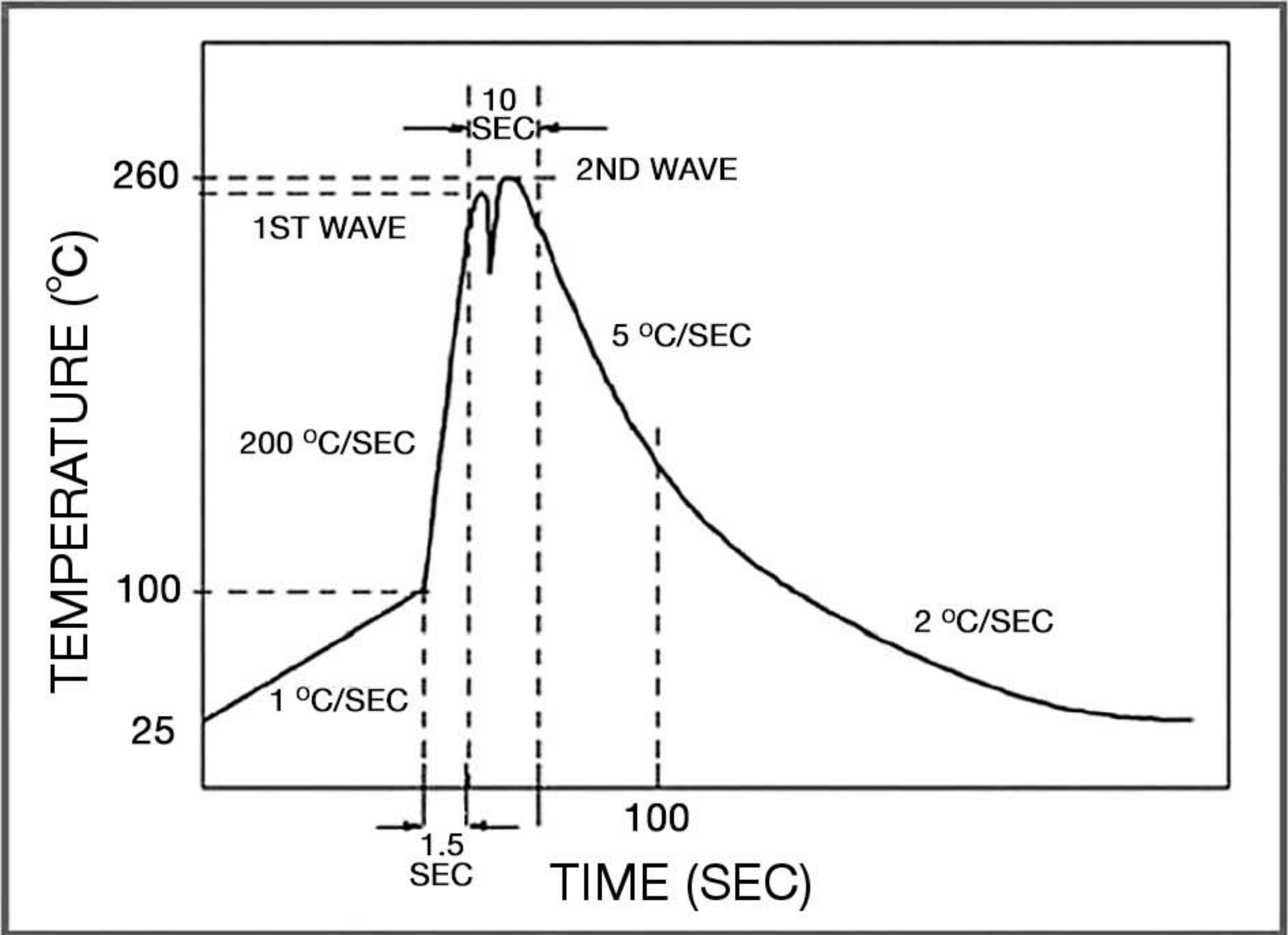


Temperature Derating Curve



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.



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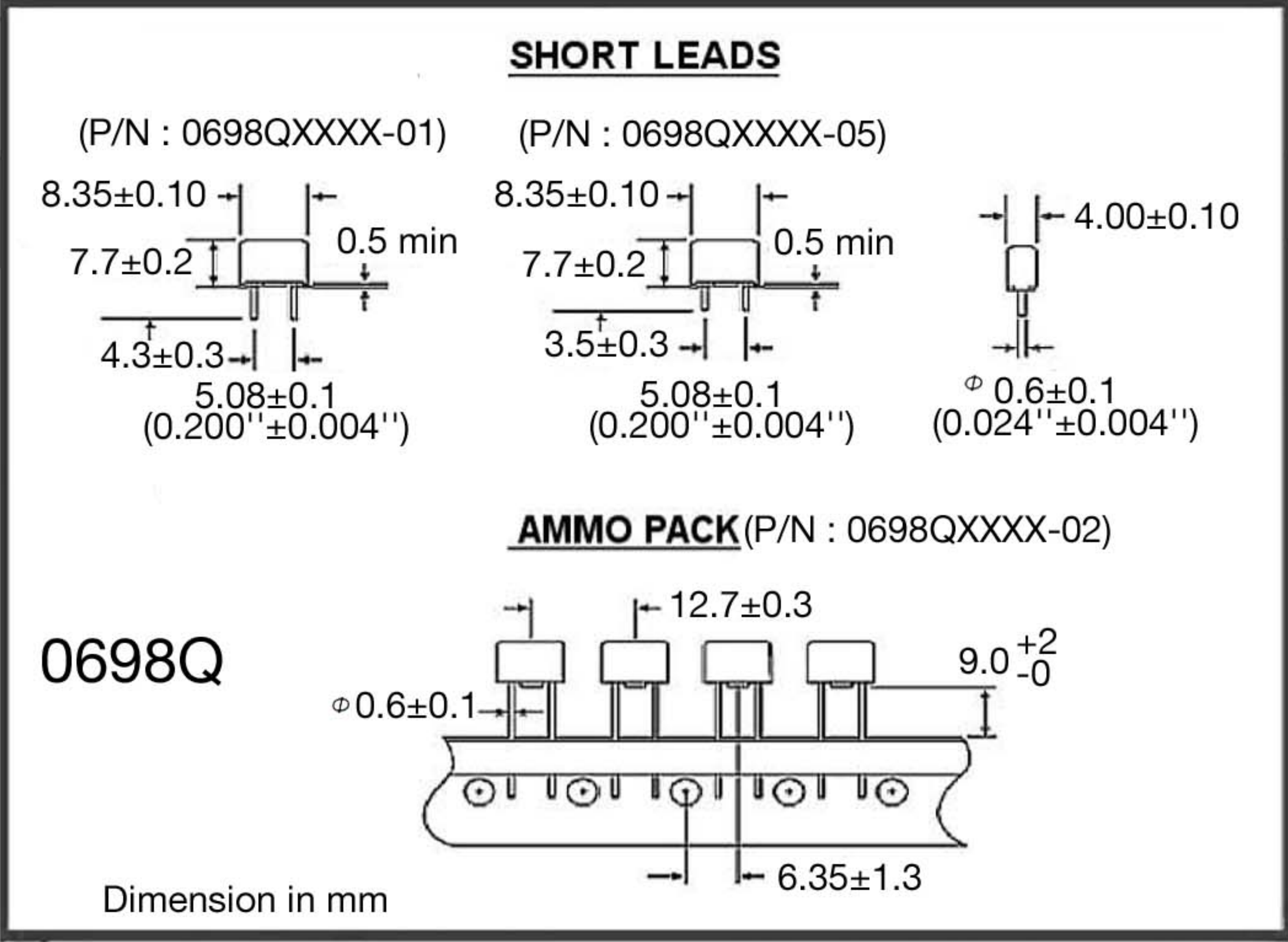
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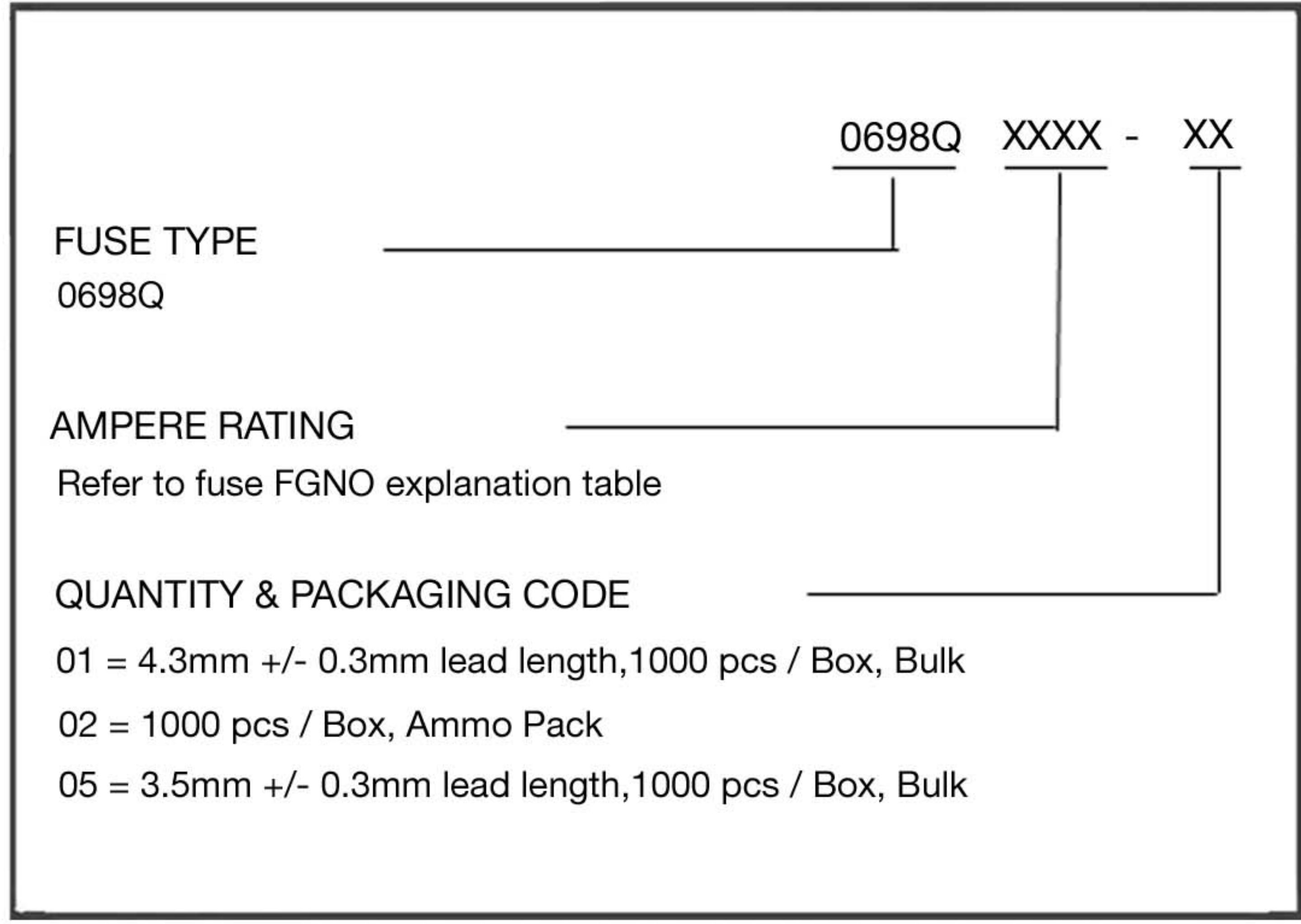
Fuse FGNO Explanation 06XX X [XXXX] X XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]	Fraction	Decimal	Amps	Bel FGNO[XXXX]
1/32	0.032	32	0032	1-1/4	1.25	1.25	1250
1/25	.040	40	0040	1-1/2	1.50	1.5	1500
1/20	.050	50	0050		1.60	1.6	1600
1/16	.063	63	0063		2.0	2	2000
8/100	.080	80	0080	2-1/4	2.25	2.25	2250
1/10	.100	100	0100	2-1/2	2.5	2.5	2500
1/8	.125	125	0125		3.0	3	3000
15/100	.150	150	0150		3.15	3.15	3150
	.160	160	0160	3-1/2	3.5	3.5	3500
2/10	.200	200	0200		4.0	4	4000
1/4	.250	250	0250		5.0	5	5000
3/10	.300	300	0300		6.0	6	6000
	.315	315	0315		6.3	6.3	6300
3/8	.375	375	0375		7.0	7	7000
4/10	.400	400	0400	7-1/2	7.5	7.5	7500
1/2	.500	500	0500		8.0	8	8000
6/10	.600	600	0600			10	9100
	.630	630	0630			12	9120
7/10	.700	700	0700			15	9150
3/4	.750	750	0750			20	9200
8/10	.800	800	0800			25	9250
						30	9300

Mechanical Dimensions



Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code
Bulk / bag, 1000 / box	N/A	1000	01 , 05
12.7 mm pitch, On Tape / box	EIA-468-C and IEC-286-2	1000	02

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Mouser Electronics

Authorized Distributor

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

Bel:

<u>0698Q4000-01</u>	<u>0698Q2500-05</u>	<u>0698Q3150-02</u>	<u>0698Q6300-05</u>	<u>0698Q1500-01</u>	<u>0698Q3150-01</u>	<u>0698Q2000-02</u>
<u>0698Q6300-01</u>	<u>0698Q5000-01</u>	<u>0698Q2500-01</u>	<u>0698Q5000-02</u>	<u>0698Q6300-02</u>	<u>0698Q2000-05</u>	<u>0698Q4000-02</u>
<u>0698Q2000-01</u>	<u>0698Q4000-05</u>	<u>0698Q2500-02</u>	<u>0698Q3150-05</u>	<u>0698Q1500-02</u>	<u>0698Q1500-05</u>	<u>0698Q5000-05</u>