



Fuse Informations

<p>What are fuses?? They are protectors that prevent damage to electronic and electrical equipment. Fuses allow electric current to pass through them until the amount of current goes over the fuses rating. At the time, the fuse Blows and stop the flow of electric current. Fuses are rated in in amperes, the unit of measure for electric current.</p>
<p>Fast-ACTING / SLOW BLOW. Fast Acting fuses react quickly to current overloads. Slow Blow fuses are less sensitive to start-up surge and protect against long-term overloads</p>
<p>Fuse is a Safety devices components. Always replace a blown fuse with the same type replace fast acting with fast acting, slow blow with slow blow. Slow Blow fuse are less sensitive to start-up the protection against long-term overloads.</p>
<p>There are four basic types of fuse: Slow-Blow/ Time LAG - Dual Element slow blow fuses / Fast-acting / Very fast Acting fuses.</p>
<p>A major type of slow blow fuse is the dual element fuse. This fuse consists of a short circuit strip and a soldered joint, spring connection. During overloads conditions, the soldered joints gets hot enough to melt and the spring shears the junction loose. Under short circuits conditions the short circuit elements operates to open the circuit. All dual-Elements fuses are considered to be slow blow, but not all slow blow fuses are dual elements.</p>
<p>Slow-blow fuses are ideal for circuits with a transient surge or power inrush. There circuits include: motors, transformers, incandescent lamps and capacitive loads. This inrush can be 20 times the normal current level. When using fast-acting, single elements type fuses, it is necessary to rate fuse at 150% to 300% of thre circuits full load curent. With this rating rule inrush may cause nuisance openings.</p>
<p>Slow Blow fuses allow close rating of the fuse without nuisance opening. Typically rate the slow-blow fuses from 125% to 150° of the circuits full load process.</p>
<p>Fast-Acting fuses have no intentional built in slow-blow and are used in circuits without transient inrush Amp.</p>
<p>Very fast-acting fuses often have silver links. Because of the fuses current limiting ability, there fuses are frequently used to protect semiconductor circuits.</p>
<p>The current carrying capacity of a fuse: The nominal value upon which all performance characteristics of a fuse are based.</p>

<p>(Overcurrent) A condition which exits on a electrical circuit when the normals current is exceeded. Overcurrents take on two separate characteristics - overloads and short circuits.</p>
<p>(Overload) Can be classified as an overcurrent which exceeds the normal full load current of a circuit. Also characteristics of this type of overcurrent is that it does not leave the normal current carrying path of the circuit. That is it flows from the source, through the conductors, through the load, back through the conductors, to the source again.</p>
<p>(Voltage Rating) For general circuit protection, the voltage rating on the fuse should be equal to, or greater than the circuit voltage of the circuit in which the fuse is applied. Exceeding the voltage rating of a fuse impairs ist ability to clear an overload or short circuit safely. Fuse can be used at any voltage below the fuse voltage rating; a 250V fuse can be used in 125V circuits.</p>
<p>EDCON has carefull the right to change specifications on any and all items shown on the webside or any supplements without prior notice providing the performance or appearance will not change the function of the items.</p>
<p>EDCON has carefull prepared the webside specifications contained herein. These specifications are for reference only, any inaccuracies may be due to typographical errors or changes made after the publications on our webside.</p>
<p>Cross Reference charts BUSSMANN / LITTLEFUSE / TELFUSE / BEL FUSE</p>
<p>Testing standards and equipment utilized for UL, CSA, METI, and IEC ... etc. Approvals (Specify fuse type desired.</p>
<p>EDCON Components are guaranteed to be free form defects in material and workmanship for a reasonable period of time after delivery. Our öiability shall be limited to replacement to defective material only. Either seller or manufacturer shall be liable for any injury, loss or damage, direct or consequential, rising out of the use of or the inability to use the products for his intended use, user assumes all risk and liability whatsoever in connection therewith.</p>

RADIAL MICRO FUSE TIME LAG	
Part No.:	R23002-0A500
Customer:	

DRW:	Jason	CHKD	Jules	MATL:	Wu	DATE	06.09.2008
APPD:	Join			FINISH	Shieh	Sheet	1 from 3



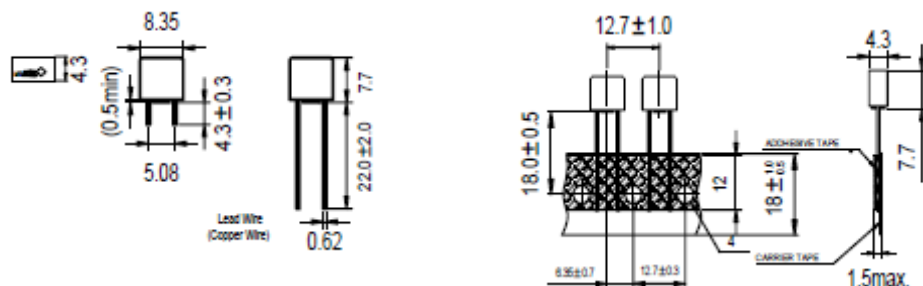
Technical Specifications

Operating Temperature:	. -55°C to +125°C
Shock:	MIL-STD-202, Method 213, Test Condition 1 (Shaw toth)
Vibration:	MIL-STD-202, Method 201, (10-55Hz x 3 axis/no load
Salt Spray:	MIL-STD-202, Method 101, Test Condition B (48hrs)
Insulation Resistance:	MIL-STD-202, Method 101, Test Condition A (After Openeing) 10.000 Ohms minimum
Resistance to Solder Heat:	MIL-STD-202, Method 210, Test Condition F (10sec, at 260°C)
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B (-65°C to +125°C)
Interrupting Ratings:	35 amperes or 10 x rated current whichever is greater at 250V AC/DC
Materials:	
Base + Cap:	Black Thermoplastic, UL94V-0
Terminations:	Tin plated alloy
Packaging:	Bulk 100 / 1000PCS per Bag Ammo Pack on Tape 1000PCS / BOX

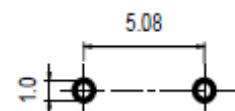
Rated Current	1,5 In	2,1 In	2,75 In		4 In		10 In
	Min.	Max.	Min.	Max.	Min.	Max.	Max.
500mA	60 Min.	2Min.	400msec	10sec	150ms	3sec	150ms

Serie	Ampere Rating (In)	Voltage Rating (V)	Nominal Resistance Cold Ohms	Voltage Drop (mV) MAX.	Nominal Melting I ² t A ² sec
R23002	500mA	250V	0,177	170	1,95

Mechanical Dimension



PCB Layout



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Approvals

	YES		YES				YES

		PSE	CCC				
YES			YES				

LEAD SOLDER CURVE



LEAD FREE SOLDER CURVE



Ordering Information

Serie	Range	Lead Length	ROHS	Packing		
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R23002	0A500	N0	R	TB1		
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0A500= 0,500A	N0= Long Lead	R= ROHS Conform	TB1= Tape/Box 1000PCS BU1= Bulk-Ware 100PCS BU10= Bulk-Ware 1000PCS
	L4= Lead length ca. 4,3mm	N= NON ROHS	

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