



Electro-Pyrotechnic Initiator Design Guide (EPIC / MEPIC)

GENERAL Requirements for the Resistor

Design case

Case size (EPIC 0603, MEPIC 0805)
Termination type SMD
Termination finish (EPIC Gold, MEPIC Tin)

Electrical characteristics

Resistance value (ohms)
Tolerance on resistance (ohms) +/-
TCR (ppm/C) if applicable +/-

Operating Conditions needed

Storage temperature Range (C)
Operating temperature Range (C)

Compatibility with pyrotechnic material (primer)

Primer type
Please specify sensibility (En./mass)
(please refer to convenient unit)

"ALL FIRE" Performances Needed

Capacitor discharge firing method

Capacitance value (uF)
Voltage (V)
Serial resistance if any (in Ohms)

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All Firing conditions

Intensity of current (A)
Time (ms)
Energy (mJ)

Expected ignition type
Joule Effect
Flash

Other please specify (A / ms / mJ)
Other please specify (A / ms / mJ)

"NO FIRE" Performances Needed

Capacitor discharge firing method (if applicable)

Capacitance value (uF)
Voltage (V)
Serial resistance if any (in Ohms)

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No Firing conditions

Intensity of current (A)
Time (ms)
Energy (mJ)

Electro Static Discharge (ESD)

Maximum applied voltage (kV)

No Firing conditions (long duration)

Intensity of current (A)
Time (s)

Other requirements if any

Customer Process

Header type (to be circled)

Flat Header - Header with pins - Printed Circuit Board - Lead wire header - Copper wires - Other

Assembly Process

Reflow soldering
Conductive Glue
Primer
Specify alloy type
Specify max temperature (C)
Specify if rework requirements
Specify curing temperature (C)
Specify curing time (min)
Wet process or Dry process ?
Application method

Cleaning process (please detail)

Other hard process conditions



Customer / Application Information

CUSTOMER NAME	_____	Type of Industry	Mining - Automotive - Firework - Civil - Military - Other
Contact Name	_____	Adress	_____
Function	_____		_____
Phone	_____		_____
E-mail	_____		_____
Tel	_____		_____
Project Name	_____		
Application (please detail)	_____		

Start of Production (Quarter / Year)	_____	Estimated quantity (1st year)	_____
Duration of project (nb of years)	_____	Estimated quantity (per year)	_____
Target unit price (including packaging)	_____ € or \$	Packaging type	_____