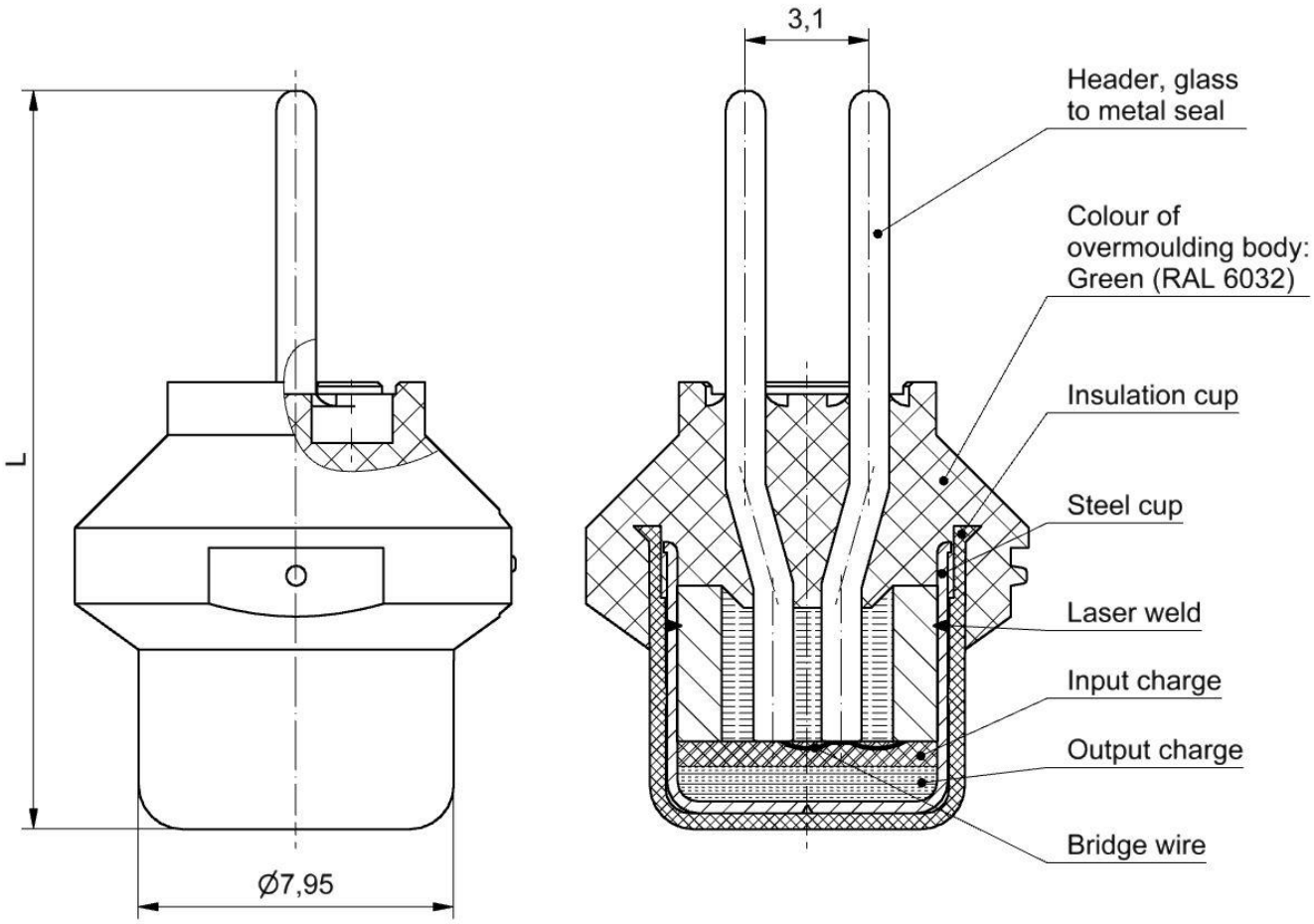
Data Sheet Electrical Initiator AAZ121A643R204

1. General

Part No.	108506
Drawing No.	108507Z
Manufacturer	Astotec Automotive Czech Republic s.r.o., Brankovice 350

2. Design

Geometry



L = 18,5 mm

Strana / Page 1 of 3	Datum/Date	Visum/Visa	Označení / Description				Index	Změna / Alteration	Datum/Date	Visum/Visa
Vytvořil / Editor	8.5.2018	MIKM	AAZ121A643R204				D	Logo a název fy	18.8.2021	TRPP
							D	Logo a název fy	18.11.2020	HYBM
Kontroloval / Inspected	17.8.2020	MIKM					D	Změna č. 2260	17.8.2020	MIKM
							C	Změna č. 2215	8.5.2018	MIKM
Schválil / Released	17.8.2020	FRYJ					B	Změna č. 2071	1.11.2010	MIKM
			Doc. No.	108588T	Index	D	A	Změna č. 1518	2.7.2007	PEM

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Header
Design Glass to metal seal

Bridge wire
Type PtW

Pyrotechnics

	Input charge	**Output charge**
Material	$ZrKClO_4$	$TiKClO_4$
Weight	40±5 mg	70±5 mg

Cap
Metal cap steel 1.4301
Plastic cap PA6.6

Sealing of pyrotechnical charge
Type laser welding

Overmolding body
Material PA6.6 with 35% glass fiber

Pin
Material NiFe
Plating (Connector area) Gold plating 0,76 µm

Connector interface
Type 11mm (D&R)

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3. Characteristics

Feature	Condition	Unit	Typical	Min	Max
Bridge wire resistance	-40°C to +120°C	Ω	2,00	1,80	2,20
Insulation resistance	20°C	MΩ	>1000	100	--
All Fire Current, 2 ms, -40°C	R=99.9999% C=95%	A	--	--	1,2
All Fire Current, 0,5 ms, -40°C		A	--	--	1,75
No Fire Current, 10s, +120°C		A	--	0,5	--
Electrostatic discharge - Immunity	150pF, 150Ω	kV	--	±2	±25
	500pF, 5kΩ	kV	--	±2	±25
Peak pressure in closed bomb	3 cm^3 test bomb -40°C to +120°C	bar	--	78	112
Hermetic seal	Tracer gas helium, 20°C	mbar l/s	$1x10^{-8}$	--	$1x10^{-6}$

4. Validations

The Initiator fulfills the following requirements:

- SAE/USCAR-28
- AK-LV 16

Validated Initiator	Successfully completed Validation	AAZ121A643R204	
		has following common characteristics	differs in following points
AAZ120A646R204 102804H	- PV per USCAR	- Bridge wire - Ignition charge - Output charge type - Header	- Output charge mass 70mg instead of 140mg
AAZ120A643R204 108781H	- Qualification per AK-LV 16	- All	-
AAZ120A634R204 108955H	- Qualification per AK-LV 16	- All	- Output charge mass 70mg instead of 105mg

The reports of above-mentioned validations are available upon request.

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