ISABELLENHÜTTE

Innovation by Tradition

BRQ // SIZE 7063 (METRIC)

Features

RoHS

— 300 W power rating
— 3 kW pulse power for 1 s
— Overall thickness compatible to Econopack
— Thick Cu-substrate as heatsink for pulse power
— Flying leads and pin connectors available
  L - flying leads with silicone insulation
  M - copper wire with teflon insulation (UL-listed)
  K - pin connector
— Protection type IP 54
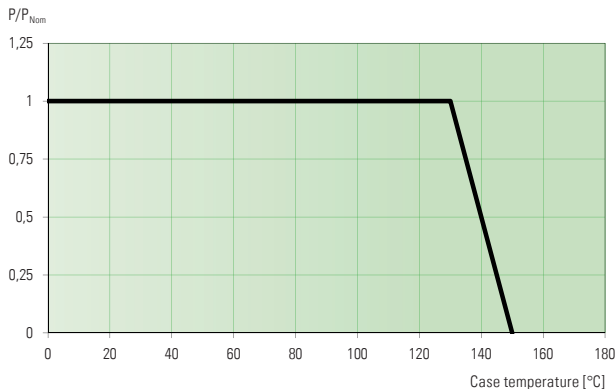— RoHS 2011/65/EU compliant

Applications

— Braking resistor
— Charging resistor
— Current limiting resistor

Technical data

Resistance values *	Ohm	1 to 300
Tolerance	%	10
Applicable temperature range	°C	-50 to +150
Power rating	W	300 (heatsink mounted)
Max. pulse power		3 kW at $t_p = 1$ s ($t_{off} > 10$ s and $T_G = 80\,°C$)
Internal heat resistance (R_{thi})	K/W	<0.05
Operating voltage	VAC / VDC	750 / 1000
Dielectric withstanding voltage	VAC	2500
Stability (Nominal load) deviation after 1000h, Cu-substrate		<1.0 % (Cu-substrate = 130 °C)

* See all standard values and versions on page 2

Power derating curve for heatsink mounted BRQ

Stability <1.0 %
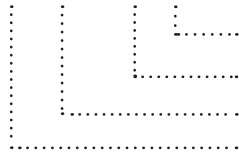
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Available standard resistance values and tolerances*

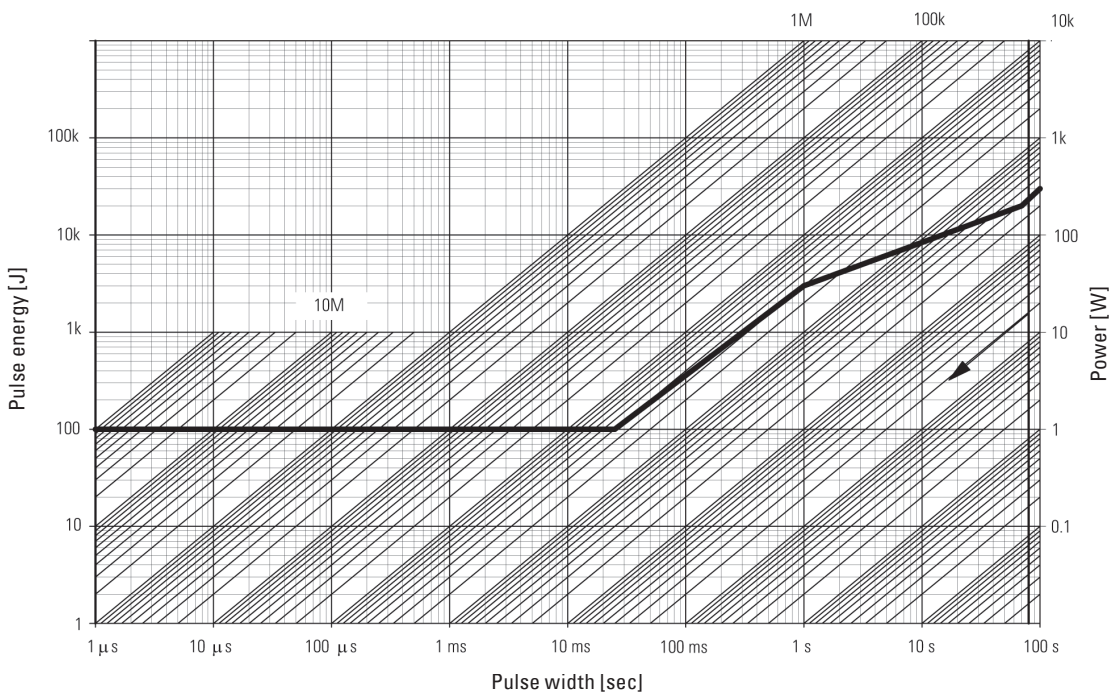| Resistance values	Version		
	K	**L**	**M**
1R00		✓	
2R50		✓	✓
10R0		✓	
22R0		✓	✓
47R0	✓	✓	✓
100R		✓	
125R		✓	✓
150R		✓	✓
200R	✓	✓	
300R	✓		

* Further values on request

✓ = available

Ordering code

BRQ - 10R0 - 10.0 - L

Version
Tolerance
Resistance value [Ohm] / „R" represents decimal point
Type

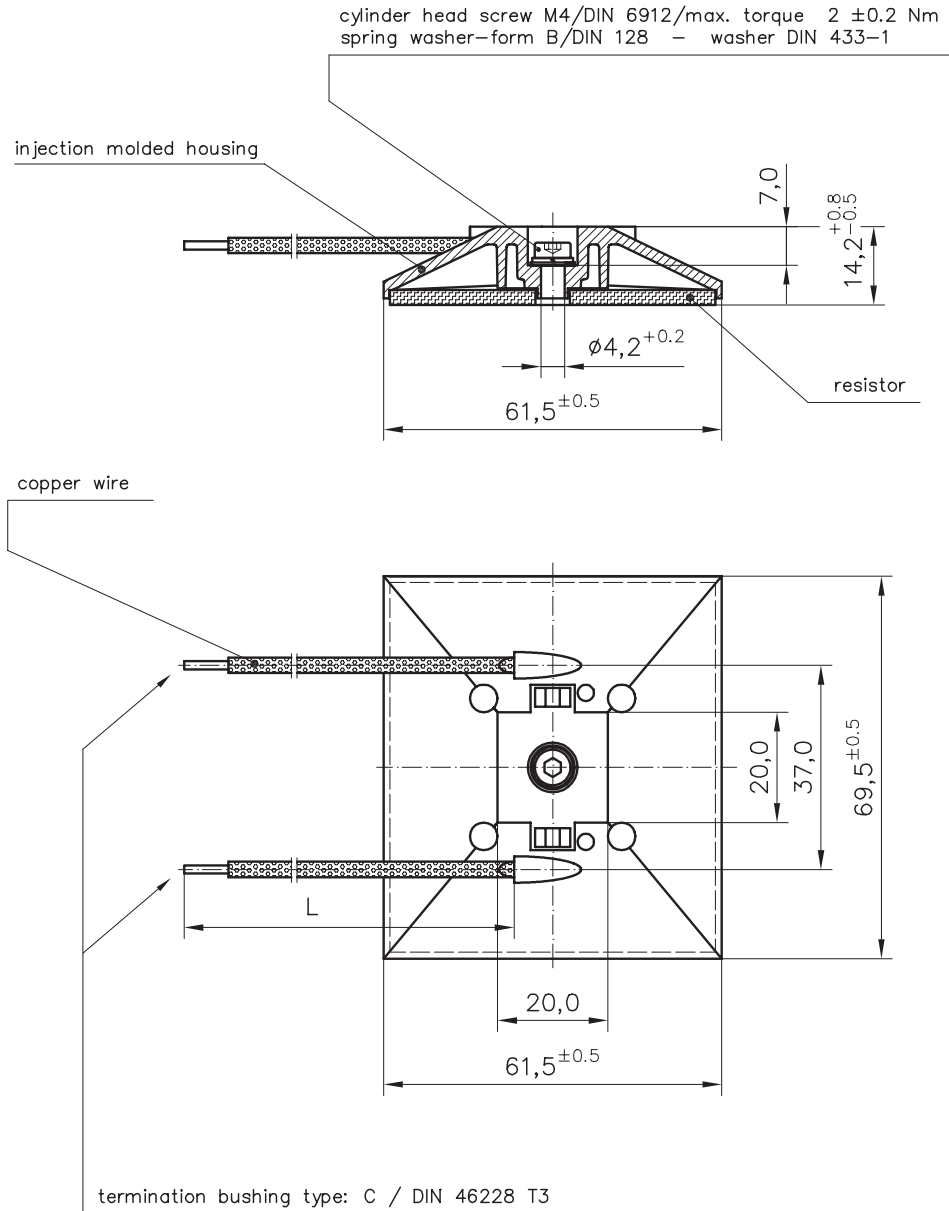**Maximum pulse energy respectively pulse power for permanent operation**

Maximum pulse energy / power versus pulse length.

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Mechanical dimensions [mm], version (L/M) with flying leads

cylinder head screw M4/DIN 6912/max. torque   2 ±0.2 Nm
spring washer—form B/DIN 128   —   washer DIN 433—1

injection molded housing

7,0

14,2 $^{+0.8}_{-0.5}$

ø4,2 $^{+0.2}$

resistor

61,5 $^{±0.5}$

copper wire

20,0

37,0

69,5 $^{±0.5}$

L

20,0

61,5 $^{±0.5}$

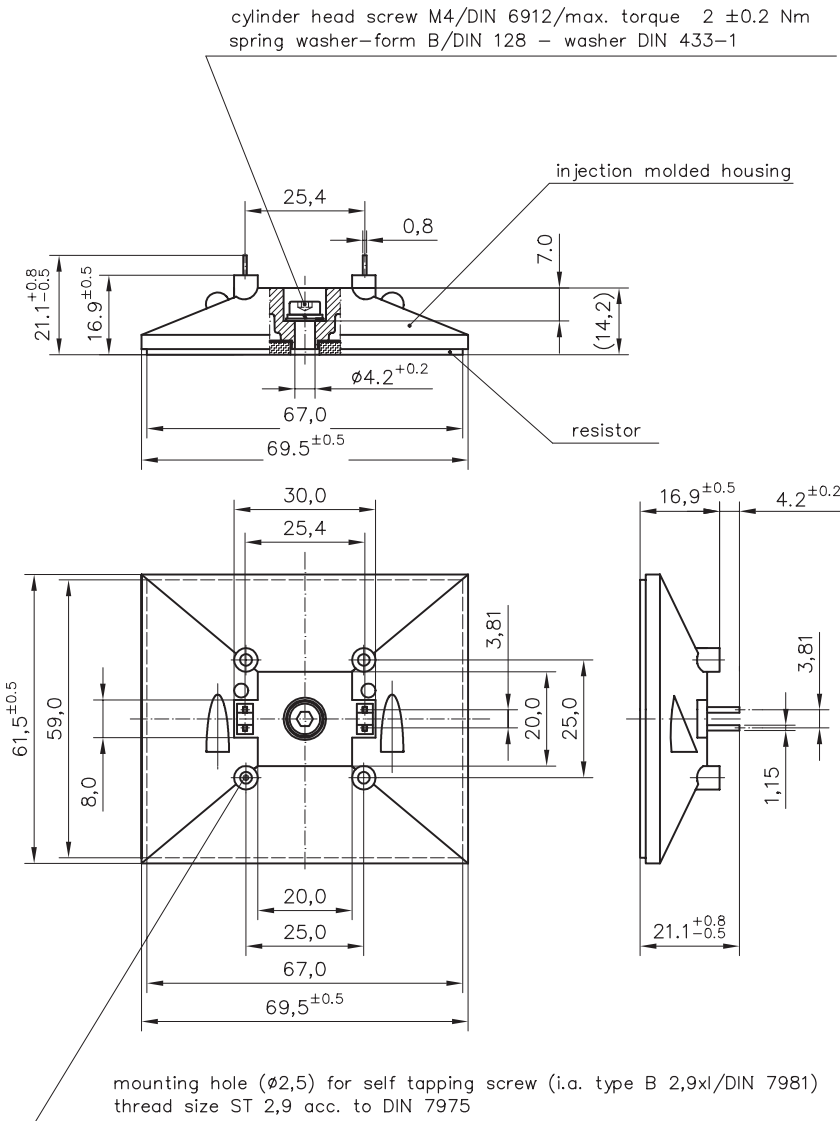termination bushing type: C / DIN 46228 T3

Z—YK—162a

Copper wire:
Version L: copper wire with silicone rubber insulation 1.5 mm² L=275 ±10 mm
Version M: copper wire with teflon insulation FEP-TE, AWG 18 (1.0 mm²) L=325 ±10 mm

BRQ // SIZE 7063 (METRIC)

Mechanical dimensions [mm], version (K) with pin connectors

cylinder head screw M4/DIN 6912/max. torque 2 ±0.2 Nm
spring washer—form B/DIN 128 — washer DIN 433—1

injection molded housing

resistor

mounting hole (∅2,5) for self tapping screw (i.a. type B 2,9xl/DIN 7981)
thread size ST 2,9 acc. to DIN 7975

Z—YK—178a

Type with pin connectors, overall thickness compatible to Econopack

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