



- High Stability
- Near Temperature Independency
- Lowest Tolerances
- Low Capacitance and Inductance
- Customized Resistance Values

SPECIFICATIONS

ELECTRICAL

	USR 4-3425/3825 with additional heatsink 3825H	UNR 4-3425/3825 note ¹⁾
Resistance Range	: 0R05 ... 500R other resistance values upon request / power rating depending on resistor value	: 0R05 ... 500R
Power Rating	: 3 W (70°C) without heatsink 5 W (20°C) for 3825H 30 W* * with heatsink	: 50 W*
Thermal Resistance Rthj-c	: 3.5 K/W	: 2.1 K/W
Tolerances	:	:
from 0R05	: 0.1%, 0.25%, 0.5%, 1%	:
from 10R	: 0.05%, 0.1%, 0.25%, 0.5%, 1%	:
from 50R	: 0.01%, 0.02%, 0.05%, 0.1%, 0.25%, 0.5%, 1%	:
Stability	: 0.01%	:
Temperature Coefficient	: max. ±5 ppm/K (-55...155)°C typ. ±3 ppm/K (-55...125)°C upon request ±1 ppm/K (0...60)°C	:
Voltage Proof	: 750 VDC	:
Max. Current	: 15 A	:
Thermal EMF	: < 1 µV/K	:

ENVIRONMENTAL

Operating Temperature Range : -55°C...155°C

MECHANICAL

Resistor Material	: NiCr-Foil	
Substrate	: Al ₂ O ₃	AlN
Housing	: Epoxy + heatsink aluminium	
Connector Material	: Cu, tinned, 4-pin	
Max. torque backplate	: 1.0 Nm	

note¹⁾: Specially designed for applications with fast changing electrical load.

Temperature of the backplate (°C)	Power (% from nominal power)
25	100
50	100
85	85
100	65
115	45
130	25
145	5
155	0

[illegible]

Dimensions in mm

UNR 4-3425 1R0 D 0.1% TK1

USR 4-3825 10R D 0.5% TK3