

# UB3C-39RF8 Datasheet



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DiGi Electronics Part Number	UB3C-39RF8-DG
Manufacturer	<a href="#">Riedon</a>
Manufacturer Product Number	UB3C-39RF8
Description	RES 39 OHM 1% 3W AXIAL
Detailed Description	39 Ohms $\pm$ 1% 3W Through Hole Resistor Axial Current Sense, Flame Proof, Moisture Resistant, Pulse Withstanding, Safety Wirewound

This model UB3C-39RF8 is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

UB3C-39RF8

Series:

UB

Resistance:

39 Ohms

Power (Watts):

3W

Features:

Current Sense, Flame Proof, Moisture Resistant, Pulse Withstanding, Safe

Operating Temperature:

-55°C ~ 250°C

Supplier Device Package:

Axial

Height - Seated (Max):

-

Failure Rate:

-

Manufacturer:

Riedon

Product Status:

Active

Tolerance:

±1%

Composition:

Wirewound

Temperature Coefficient:

±20ppm/°C

Package / Case:

Axial

Size / Dimension:

0.157" Dia x 0.350" L (4.00mm x 8.90mm)

Number of Terminations:

2

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8533.21.0080

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

# UB Series

Miniature Silicone Coated Power Resistors



- High Power Rating in a Small Package
- Excellent Pulse Handling
- High Temperature: -55°C to +250°C
- Resistances from 0.02 to 260kOhms
- Power Rating 1 to 15Watts
- Resistance Tolerances to  $\pm 0.01\%$
- Low TCR:  $\pm 20\text{ppm/K}$  Standard
- MIL-R-26 / MIL-R-39007 Power Ratings
- Non-Inductive Windings Available
- Flame resistant coating



## SPECIFICATIONS

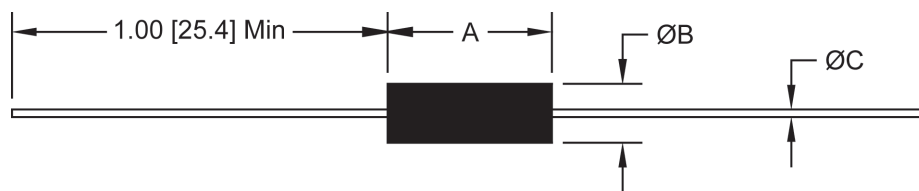
Type	Wattage Rating ( Watts )	Maximum Ohms <sup>2</sup>	Dimensions			MIL-R-26 / MIL-R-39007 Style
			A $\pm 0.062''$ [ $\pm 1.6\text{mm}$ ]	B <sup>3</sup> $\pm 0.031''$ [ $\pm 0.8\text{mm}$ ]	C <sup>1</sup> $\pm 0.002''$ [ $\pm 0.05\text{mm}$ ]	
UB-1	1	3.4k	0.250 [6.4]	0.085 [2.2]	<b>0.020 [0.5]</b> 0.025 [0.6]	RW-81 RWR-81
UB-2	1.5	7.5k	0.312 [7.9]	0.078 [2.0]	<b>0.020 [0.5]</b> 0.025 [0.6]	RWR-82
UB-3	2	10k	0.406 [10.3]	0.094 [2.4]	<b>0.025 [0.6]</b> 0.020 [0.5]	RW-80 RWR-80
UB-3C	3	12.5k	0.350 [8.9]	0.156 [4.0]	0.032 [0.8]	
UB-5	4	25k	0.560 [14.2]	0.187 [4.7]	0.032 [0.8]	
UB-5C	5	32k	0.500 [12.7]	0.250 [6.4]	0.040 [1.0]	
UB-6	6	50k	0.625 [15.9]	0.250 [6.4]	0.040 [1.0]	
UB-10	7	95k	0.875 [22.2]	0.312 [7.9]	0.040 [1.0]	RW-84
UB-12	10	150k	1.220 [31.0]	0.312 [7.9]	0.040 [1.0]	
UB-15	15	260k	1.780 [45.2]	0.375 [9.5]	0.040 [1.0]	

<sup>1</sup> Lead Diameter: 18 AWG = 0.040" / 20 AWG = 0.032" / 22 AWG = 0.025" / 24 AWG = 0.020"

Where more than one lead is listed / the top value is Standard

<sup>2</sup> For non-inductive windings / divide maximum resistance by 2

<sup>3</sup> For non-inductive winding where  $R \leq 0.10$  Ohms, Tolerance is  $+0.063/-0.00$  [ $+1.6/-0.0$  mm]



# UB Series

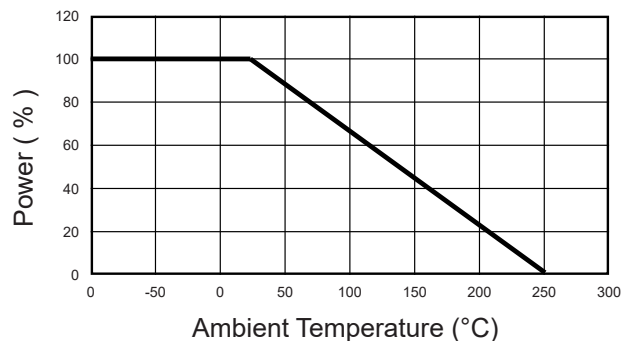
Silicone Coated Power Resistors



## SPECIFICATIONS (continued)

Specification	Value
Tolerances	$\pm 0.01\%$ to $\pm 10\%$ ( 1% Standard )
Temperature Coefficient	>10 $\Omega$ : $\pm 20$ ppm/K 1 $\Omega$ to 10 $\Omega$ : $\pm 50$ ppm/K <1 $\Omega$ : Call Factory
Temperature Range	-55°C to +250°C
Maximum Working Voltage	SQRT( P * R )
Dielectric Strength	500 VAC : UB-1 / UB-2 / UB-3 1000 VAC : All Others
Construction	Centerless ground ceramic core Matte Tin over Copper Flame resistant / High temperature / trivalent / inorganic Silicone coating All welded terminations
Environmental Performance (MIL-STD 202)	$\Delta R$
Dielectric	$\pm 0.2\% + 0.05\Omega$
Load Life	To $\pm 1\%$ Depending on Size and Resistance Value
Storage	$\pm 0.2\% + 0.05\Omega$
Moisture Resistance	$\pm 0.2\% + 0.05\Omega$
Thermal Shock	$\pm 0.2\% + 0.05\Omega$
5X Overload ( 5s )	$\pm 0.2\% + 0.05\Omega$
Shock	$\pm 0.1\% + 0.05\Omega$
Vibration	$\pm 0.1\% + 0.05\Omega$

### Power Derating Curve



## Ordering Information

For Non-Inductive Windings / insert the letter "N" ( i.e. UBN-5 )

Part Description: Part Type - Resistance - Tolerance - TCR ( If not standard )

Example: UB-3 10 Ohm 1%

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