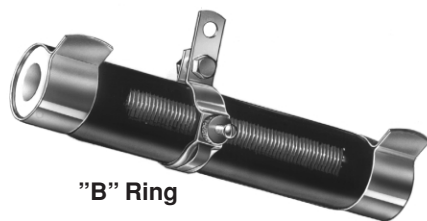


Adjustable Wirewound Enamelled Resistors



"B" Ring

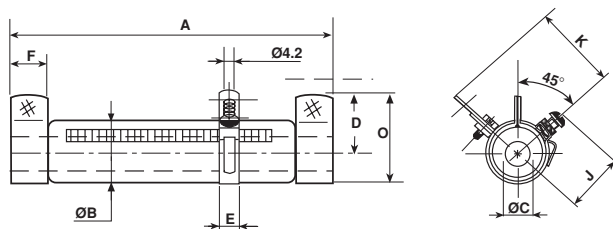
FEATURES

- 21 Watt to 180 Watt at 25°C
- NF C 93-214
 - RBA 13 x 70
 - RBA 20 x 117
 - RBA 25 x 168

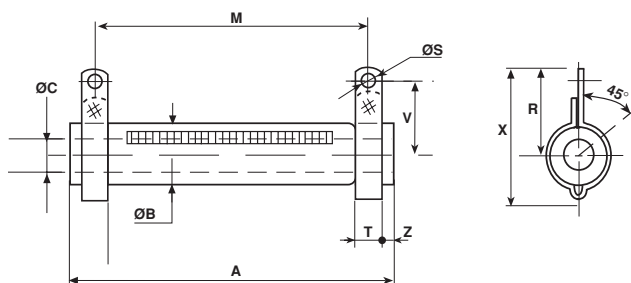
The ceramic tubular core ensures high dissipation capacity and excellent resistance to thermal shock and overload. The resistor winding is evenly coiled on the core and protected by an enamel coating. A longitudinal opening provides for one or more electrical connections by means of sliding collars equipped with a tongued connector.

DIMENSIONS in millimeters

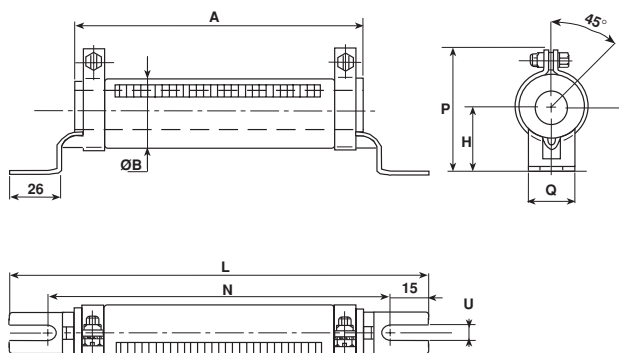
WELDED STAINLESS STEEL 304 L BAND "B"



WELDED STAINLESS STEEL 304 L COLLAR "AN" TYPE 1



SCREWED STAINLESS STEEL 304 L "CS" TYPE 1



DIMENSIONS in millimeters						
RA MODEL	13 x 70	16 x 94	20 x 117	25 x 138	25 x 168	30 x 250
Connection	AN-B*	AN-B	AN-B	AN-B-CS	AN-B-CS	AN-B-CS
A ± 2	70	94	117	138	168	250
Ø B max.	16	19.5	23	28	28	33
Ø C min.	5	9	9	12	12	17
D	16 ± 0.5	17.5 ± 0.5	21 ± 0.7	23.5 ± 1	23.5 ± 1	26 ± 1
E $+0.5$ -0	7	8	8	8	8	8
F $+0.5$ -0	10.5	12	14	15	15	18
H ± 1	—	—	—	27	27	30
J max	19.5	23	25	27.5	27.5	30
K max	24	29.5	31.5	34	34	36.5
L -0 -4	—	—	—	199	229	317
M	56 ± 2	78 ± 2	98 ± 2	117 ± 2	147 ± 2	227 ± 2.5
N -0 -4	—	—	—	169	199	287
O max	24.5	28	33	38.5	38.5	43.5
P ± 1.5	—	—	—	50	50	60
Q ± 0.5	—	—	—	24	24	25
R	24 ± 0.5	26.5 ± 0.5	31 ± 0.7	33.5 ± 1	33.5 ± 1	36 ± 1
S	4.2	4.2	4.2	5.7	5.7	5.7
T	6.35	6.35	6.35	9	9	13
U ± 0.5	—	—	—	6.5	6.5	9
V	20 ± 0.5	21 ± 0.5	24 ± 0.7	28.5 ± 1	28.5 ± 1	33 ± 1
X	34.5 ± 1	38 ± 1	42 ± 1	51 ± 1.5	51 ± 1.5	55 ± 1.5
Z approx	3.5	5	6	6	6	5
Average unit weight in g	40	70	116	200	225	415

*Also with CS and CR collars. See RW data sheet.

MECHANICAL SPECIFICATIONS

Mechanical Protection	vitreous enamel
Resistive Element	Ni-Cr wire
Connections	B band AN or CS collar
Average Unit Weight	40 to 415g

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits	– 55°C + 350°C
Climatic Category	– 55°C/+ 200°C/56 days

ELECTRICAL SPECIFICATIONS

Resistance Range	33Ω to 22kΩ (E6-E24 series)
Tolerance	
Standard	± 10%
Power Rating	21W to 180W at 25°C
Temperature Coefficient	+ 75ppm/°C (typical)

PERFORMANCE

TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS
Short Time Overload	10Pr 5s Voltage < 6000V	2% or 0.05Ω	0.5%
Climatic Sequence	– 55°C + 200°C 5 cycles	3% or 0.05Ω Insulation resistance > 100MΩ	1%
Humidity (Steady State)	56 days 95% R.H.	2% or 0.05 Insulation resistance > 100MΩ	0.5%
Thermal Shock	Load at Pr followed by exposure at – 55°C/15'	2% or 0.05Ω	0.5%
Resistor Strength	200N ± 10N	2% or 0.05Ω	0.25%
Vibration	55/10	1%* or 0.05Ω	0.5%
Terminals Strength	AN B Traction 40Ncm Torque 60Ncm	1% or 0.05Ω	0.25%
Load Life	1000 hours at Pr 25°C 90'/30'	5%	1.5%

*1% of total resistance and 2% between sliding collar and fixed connection.

SPECIAL FEATURES

RA STYLE	13 x 70	16 x 94	20 x 117	25 x 138	25 x 168	30 x 250
Designation NF C 93-214	RBA 13 x 70	–	RBA 20 x 117	–	RBA 25 x 168	–
Power Rating at 25°C NF C 93-214	13W	–	25W	–	50W	–
Maximum Power Rating at 25°C	21W	35W	50W	75W	120W	180W
Ohmic Range (E6, E24 series)	33Ω 3.9kΩ	68Ω 3.9kΩ	100Ω 4.7kΩ	150Ω 6.8kΩ	220Ω 10kΩ	330Ω 22kΩ

ADMISSIBLE RATED AMPERAGE

This must in all cases be less than:

$$I_n = \sqrt{\frac{Pr (W)}{R_n (\Omega)}}$$

SLIDING COLLAR

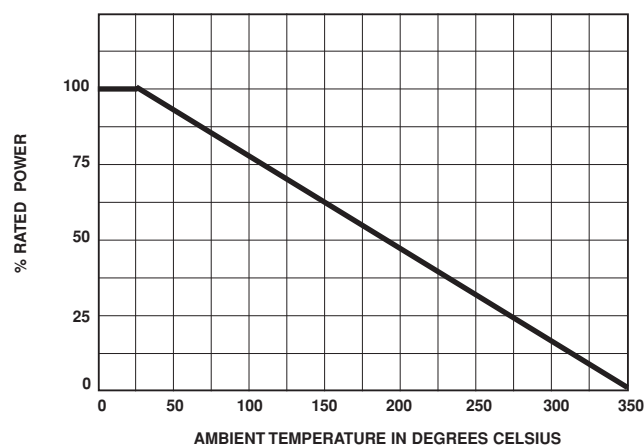
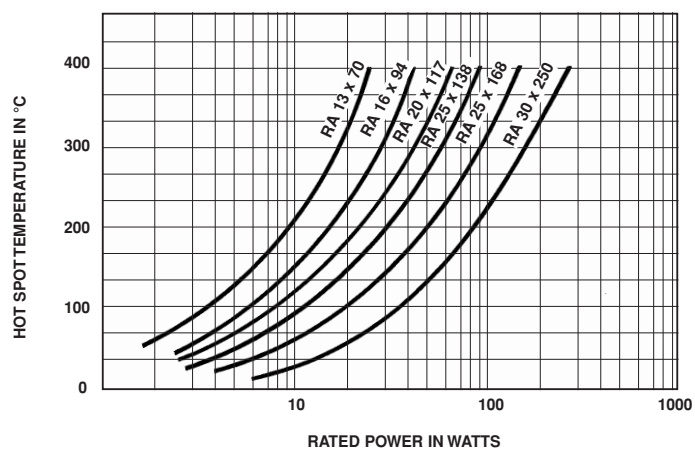
Resistors are normally supplied with 1 sliding collar fitted and locked in a specific position.

Additional collars can be supplied and adjusted at the factory to special order (on request).*

*Quote ohmic value and tolerance of each resistance section, and Rn value.

MAXIMUM ADDITIONAL COLLARS

MODEL AND TYPE	RA 13 x 70	RA 16 x 94	RA 20 x 117	RA 25 x 138	RA 25 x 168	RA 30 x 250
Additional sliding collar	1	1	1	2	3	4

**POWER RATING CHART****TEMPERATURE RISE****MARKING**

SFERNICE trademark, model, style, NF style (if applicable) ohmic value (in Ω), tolerance (in %), manufacturing date.

ORDERING INFORMATION

RA	20 x 117		AN	6.8k Ω	$\pm 10\%$	4 SUP. C.
MODEL	STYLE	SPECIAL DESIGN	CONNECTIONS	OHMIC VALUE	TOLERANCE	ADDITIONAL SLIDING COLLAR
		In option		Custom items are subject to extra-charge and min. order. Please see price list.		