

Metal Shunt Resistor w/air gap

AEC-Q200
Available

RoHS
Compliance

Yokohama Electronic Devices

BAR series



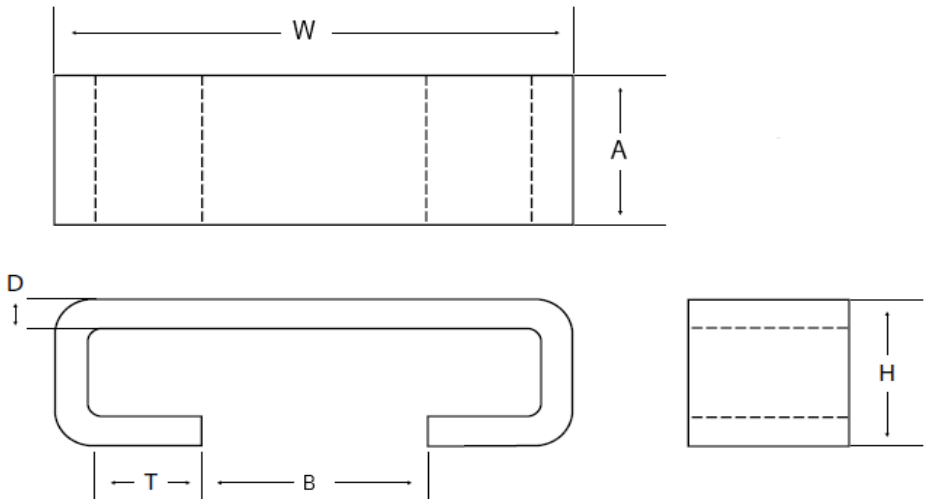
Features

- Power type up to 5W
- Covering wider milliohm range up to 40m ohm
- Accommodating thermal expansion with its lead
- Air gap contributes for thermal isolation from PWB
- Tighter tolerance and lower TCR
- Non-inductive version
- Higher Long-term Stability and Reliability

Part number Definition

B	A	R	1	1	0	3	2	3	F	M	R	0	0	2	F	T	9	0	J			
Product Type			Size			Prat		Material		Resistance			Tolerance			TCR			Term. Type		Indiv.Identifier	
Metal Shunt Resistor w/air gap			11032 11064			3B 2W 3F 3W 3H 5W		M Manganin F FeCrAl K Karma		First digit represents decimal place, last 3 digits does significant figures (ex.) 2m ohm R002			+/-1% F +/-5 J			(ppm/deg.C) +/-40 Q15 +/-70 R25 +/-240 T90			J forming lead		TBD in neccesity	

Dimension



Type	R-value(mΩ)	W(mm)	H(mm)	T(mm)	B(mm)	A(mm)	D(mm)	SPQ
BAR11032	4~40	11.18±0.38	3.05±0.76	2.36±0.25	4.83±0.76	3.18±0.38	0.12~0.7	2Kpcs
	3		3.51±0.76		4.7±0.76	3.56±0.38		
	2	11.56±0.38						
BAR11064	1~20	10.7~12	2.28~4.57		4.83±0.76	6.35±0.38		1Kpcs

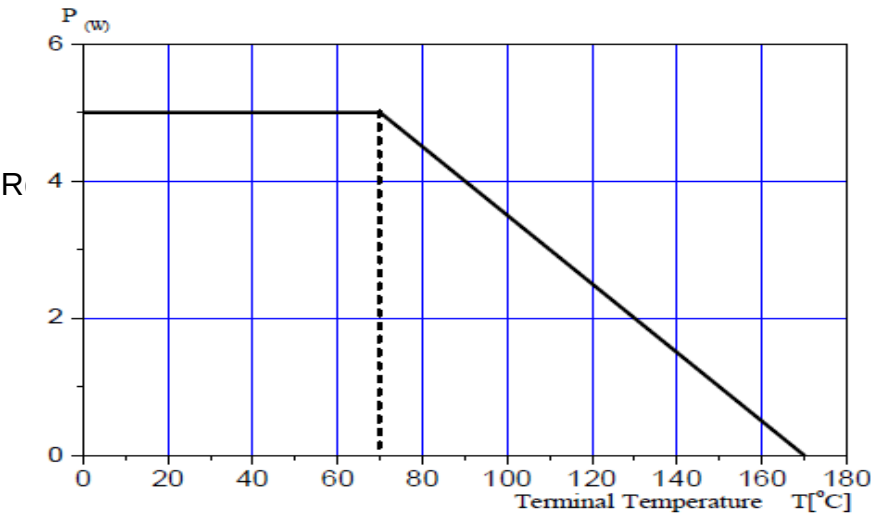
Remark: Gentle concave with a max.1.0mm narrower width than the denote "A" might be given lengthwise.

Ratings

Item		BAR11032		BAR11064
Resistance mOhm		2~15	16~40	1~20
Tolerance		± 1%、± 5%		
Recommended applicable temperature range(°C)		-55°C to +170°C		
Power P70°C (W)		3	2	5
Temperature coefficient (20°C~120°C) ppm/°C	M : Manganin	2mΩ、3mΩ: ±240	-	1mΩ :±240
		4m~9mΩ: ±70	-	2m~4mΩ:±70
	K : Karma	10m~15mΩ: ±40	16~20mΩ: ±40	5~15mΩ: ±40
	F: FeCrAl	-	21~40mΩ: ±40	5~20mΩ: ±40

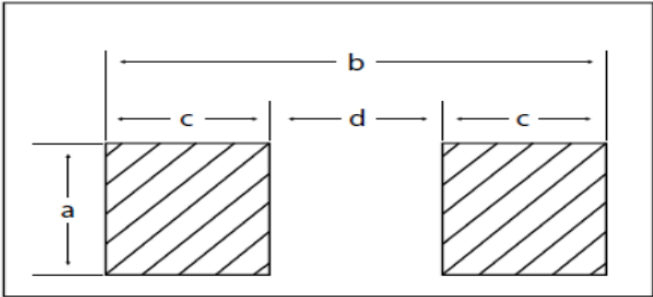
Remark: Lower TCR for extreme low resistance range available on request.

Poewer Derating



Remark: Stability <1.0% under the derating described in above.

Recommended Land Pattern



Type	Resistor(mΩ)	a(mm)	b(mm)	c(mm)	d(mm)
BAR11032	3~40	4.07	9.37	3.07	3.23
	2	4.45			
BAR11064	1~20	7.24	9.58	3.18	

All Specifications are subject to change without notice

*****E&E.O.*****