

# B&A 61 Position Break-Out Box (BOB)



**Product Data Sheet**  
Part No.180074

B&A Document 110040-A  
Aug 2023



1575 Corporate Dr., Suite 100  
Costa Mesa, California 92626



[baengineering.com](http://baengineering.com)



(949) 335-9707



[info@baengineering.com](mailto:info@baengineering.com)



## INTRODUCTION

This document contains technical specifications for the Break-Out-Box (BOB), B&A Part No. 180074. Specifications are shown at 25 °C temperature, unless otherwise noted. The main features of the BOB are listed below:

- Certified for use on Flight Hardware
- Available in different colors and finishes
- Chassis ground plug
- Part traceability
- 1-year warranty
- Compatible with B&A Bob Cables<sup>3</sup>



## CUSTOMIZATION

The following items can be customized when ordering:

- 1) **Color<sup>1</sup>:** Standard color for this configuration is **Blue**. Other colors available for order:
  - Green
  - Desert Tan
  - Yellow
  - Pink
  - Signal Violet
- 2) **Finish:** Available options are:
  - Anodized (standard)
  - Powder coated



## GENERAL SPECIFICATIONS<sup>2</sup>

Number of Contacts	61
Right Connector Part No. <b>RED J1</b>	MS27656T25F61SN
Left Connector Part No. <b>BLACK J2</b>	MS27656T25F61PN
Banana Plug Type	Regular (non-miniature)
Finish	Anodized
Wiring	20 AWG Teflon Shielded
Grounding	Chassis Ground Plug (GND)
Approximate Weight	8.4 lbs. , 3.8 kg



## ELECTRICAL RATING

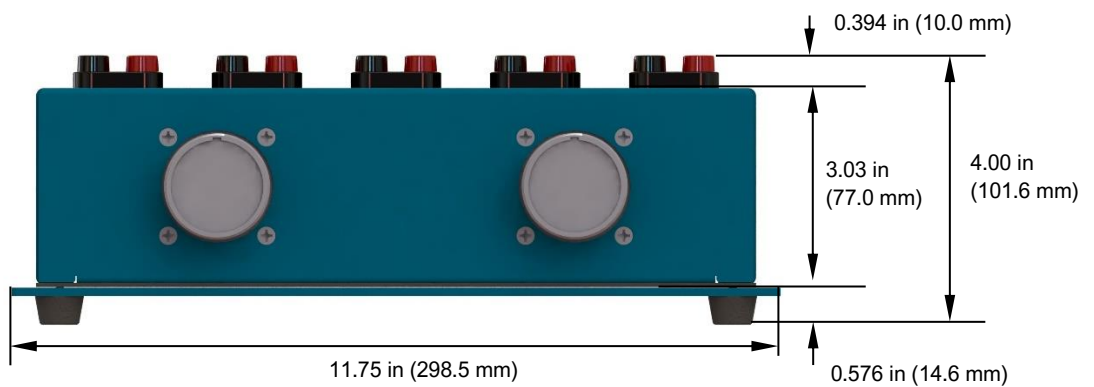
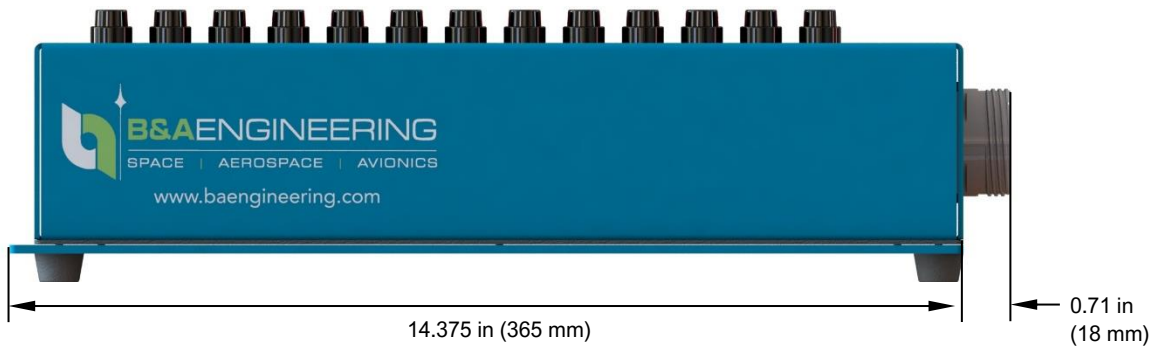
Maximum Continuous Current	5.0 A
Maximum Intermittent Current	10.0 A
Maximum Hands-free Voltage Use	2500 Vrms
Max Operating Temperature	+239°F (+115°C)

### Notes:

- (1) Anodized and powder coated finishes have different color tones.
- (2) For further specification details, please contact [support@baengineering.com](mailto:support@baengineering.com)
- (3) Free online BOB cable tool available to choose required connector and request quote. B&A Bob cables can be ordered to mate to this product. Over 250 available drawings for various connector choices to choose. Please visit the link below for more information: <https://baengineering.com/bob-cables/>



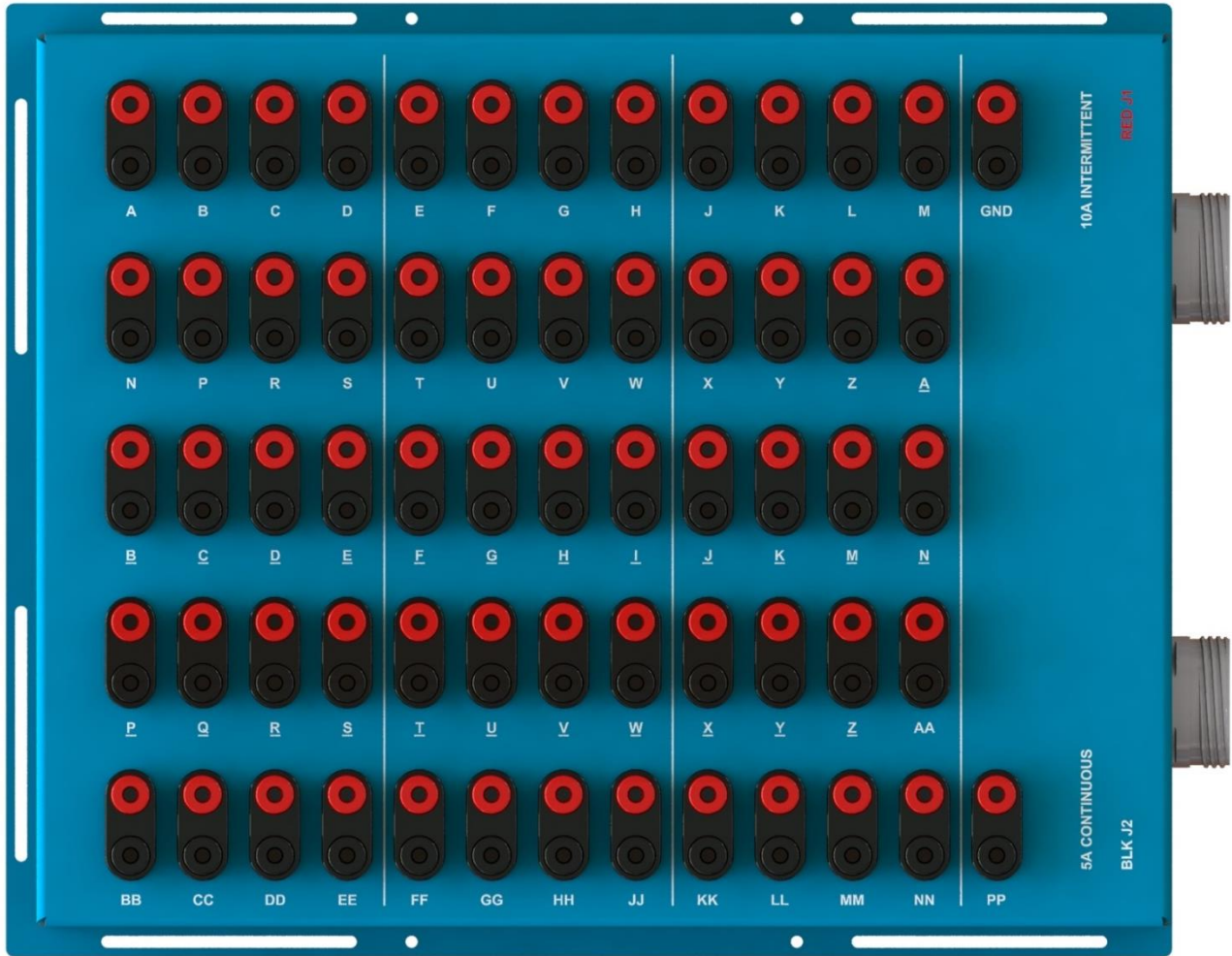
PHYSICAL DIMENSIONS



DATA SHEET



BANANA JACK LABELING



DATA SHEET

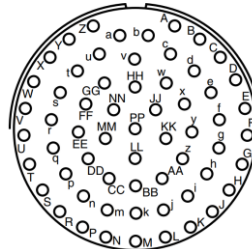




**RED BANANA JACK WIRING**



**RED** Banana Jack

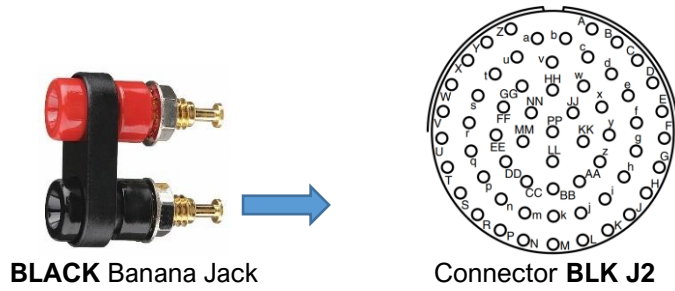


Connector **RED J1**

Red Banana Jack	Connector Red J1	Red Banana Jack	Connector Red J1
From	To	From	To
A	A	<u>I</u>	i
B	B	<u>J</u>	j
C	C	<u>K</u>	k
D	D	<u>M</u>	m
E	E	<u>N</u>	n
F	F	<u>P</u>	p
G	G	<u>Q</u>	q
H	H	<u>R</u>	r
J	J	<u>S</u>	s
K	K	<u>T</u>	t
L	L	<u>U</u>	u
M	M	<u>V</u>	v
N	N	<u>W</u>	w
P	P	<u>X</u>	x
R	R	<u>Y</u>	y
S	S	<u>Z</u>	z
T	T	AA	AA
U	U	BB	BB
V	V	CC	CC
W	W	DD	DD
X	X	EE	EE
Y	Y	FF	FF
Z	Z	GG	GG
<u>A</u>	a	HH	HH
<u>B</u>	b	JJ	JJ
<u>C</u>	c	KK	KK
<u>D</u>	d	LL	LL
<u>E</u>	e	MM	MM
<u>F</u>	f	NN	NN
<u>G</u>	g	PP	PP
<u>H</u>	h		



**BLACK BANANA JACK WIRING**



Black Banana Jack	Connector Black J1	Black Banana Jack	Connector Black J1
From	To	From	To
A	A	<u>I</u>	i
B	B	<u>J</u>	j
C	C	<u>K</u>	k
D	D	<u>M</u>	m
E	E	<u>N</u>	n
F	F	<u>P</u>	p
G	G	<u>Q</u>	q
H	H	<u>R</u>	r
J	J	<u>S</u>	s
K	K	<u>T</u>	t
L	L	<u>U</u>	u
M	M	<u>V</u>	v
N	N	<u>W</u>	w
P	P	<u>X</u>	x
R	R	<u>Y</u>	y
S	S	<u>Z</u>	z
T	T	AA	AA
U	U	BB	BB
V	V	CC	CC
W	W	DD	DD
X	X	EE	EE
Y	Y	FF	FF
Z	Z	GG	GG
<u>A</u>	a	HH	HH
<u>B</u>	b	JJ	JJ
<u>C</u>	c	KK	KK
<u>D</u>	d	LL	LL
<u>E</u>	e	MM	MM
<u>F</u>	f	NN	NN
<u>G</u>	g	PP	PP
<u>H</u>	h		