

E-Beam Welded Through Hole Shunt Resistors

These space saving components feature E-Beam welded construction and full RoHS compliance. Available in 2-terminal or 4-terminal Kelvin connections. Other features include Max. 55 ampere continuous operating current and an inductance of less than 10nH. Applications: current sensing, feed back, motor control, surge/pulse applications.



GENERAL SPECIFICATIONS

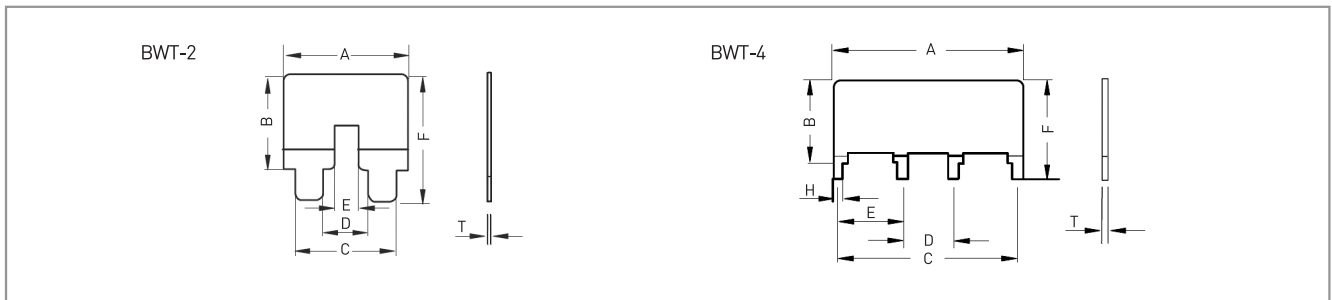
Model	Power Rating [W]	Resistance [Ω]	Tolerance [%]
BWT-2	2	0.003 ~ 0.010	F[$\pm 1\%$], J[$\pm 5\%$]
BWT-4	5	0.0005 ~ 0.01	

CHARACTERISTICS

Values in [] mean change in Ω after test

Test	BWT 2	BWT 4	Test method
Temperature Coefficient	[< ± 50 ppm/ $^{\circ}\text{C}$]		-55 $^{\circ}\text{C}$ ~ +125 $^{\circ}\text{C}$
Moisture Resistance	[< $\pm 0.5\%$]	[< $\pm 1.0\%$]	40 $^{\circ}\text{C}$, 93 $\pm 3\%$ RH, 56days
Thermal Shock	[< $\pm 1.0\%$]	[< $\pm 1.5\%$]	
Temperature Cycle	[< $\pm 0.5\%$]	[< $\pm 1.0\%$]	-55 $^{\circ}\text{C}$ ~ 125 $^{\circ}\text{C}$, 1000hours
High Temperature Exposure	[< $\pm 1.0\%$]	[< $\pm 1.75\%$]	125 $^{\circ}\text{C}$, 1000hours
Mechanical Shock	[< $\pm 0.5\%$]	[< $\pm 1.0\%$]	125 $^{\circ}\text{C}$, 1000hours
Vibration	[< $\pm 0.5\%$]	[< $\pm 1.0\%$]	
Solder Resistance	[< $\pm 0.5\%$]	[< 1.0%]	350 $\pm 10^{\circ}\text{C}$, 2.5seconds
Load Life	[< $\pm 0.5\%$]	[< $\pm 1.0\%$]	70 $\pm 2^{\circ}\text{C}$, Ar, 1000hours

DIMENSIONS [mm]



Type	A	B	C	D	E	F	H	T ± 0.05
BWT-2	15.6 ± 0.5	14.0 ± 0.3	13.6 ± 0.2	4.0 ± 0.2	1.2 ± 0.2	17.0 ± 0.3	/	0.32
	17.2 ± 0.5	10.0 ± 0.3	15.2 ± 0.2	5.6 ± 0.2	1.2 ± 0.2	13.0 ± 0.3	/	
BWT-4	22.0 ± 0.5	10.9 ± 0.3	20.3 ± 0.2	5.2 ± 0.2	7.55 ± 0.2	14.4 ± 0.3	1.7 ± 0.25	0.35 ~ 1.80

ORDERING PROCEDURE EXAMPLE

