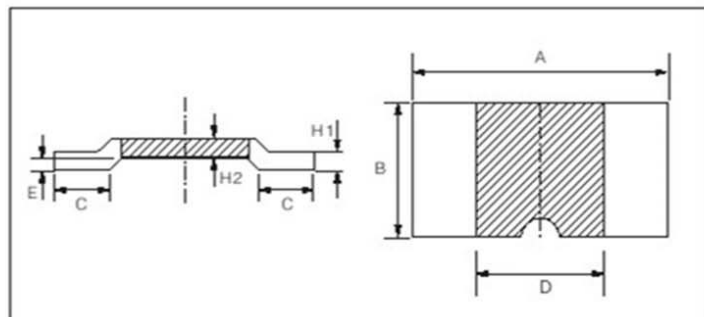


## Construction



## Features

- E-Beam welded construction
- ROHS compliant
- The inductance less than 3nH

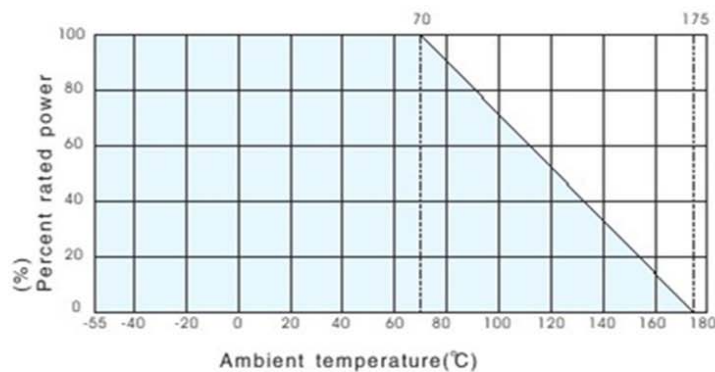
## Dimensions(mm)

Type	A	B	C	D	E
BFL-2512	6.35 ± 0.254	3.05 ± 0.254	1.14 ± 0.254	3.0 <sup>+0.2</sup> <sub>-0.3</sub>	0.35
BFL-3921	10 ± 0.254	5.2 ± 0.254	2.0 ± 0.254	5.2 <sup>+0.2</sup> <sub>-0.3</sub>	0.5
BFL-5931	15 ± 0.254	7.75 ± 0.254	4.0 ± 0.254	6.2 <sup>+0.2</sup> <sub>-0.3</sub>	0.5

## Applications

- Ideal for high current application for automobile market
- Power modules
- 2-Terminal or 4-Terminal connections

## Derating Curve

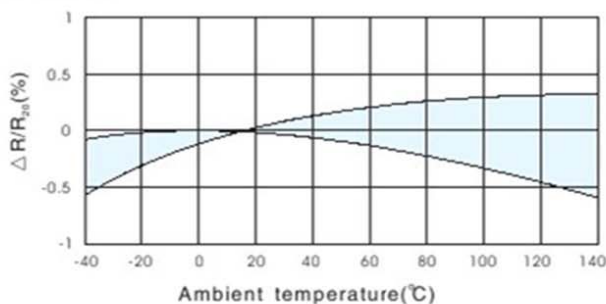


## Reference Standards

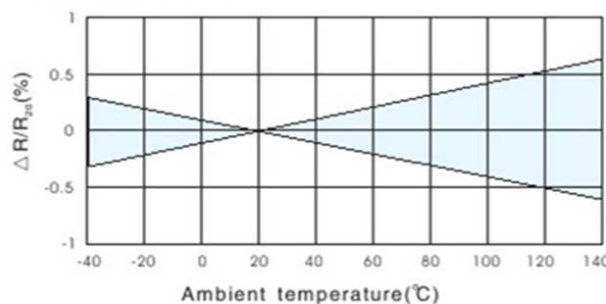
Q/ATK061

## Resistance Change VS Temperature

Manganin



Karma (NiCrAlFe)



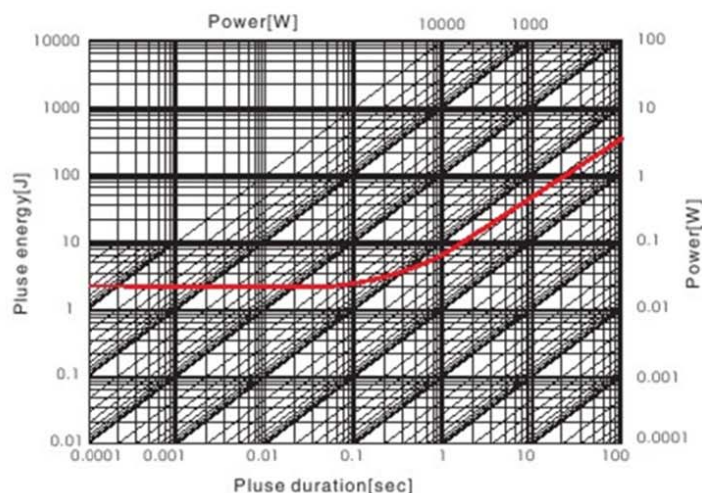
## Technical Specifications

Type	Power	Resistance Range	(mΩ)	H1(mm)	H2(mm)
BFL-2512	3W	0.3mΩ ~ 5mΩ	0.3	0.95	0.95
			0.5	0.85	0.86
			1.0	0.42	0.42
			2.0	0.72	0.64
			3.0	0.48	0.42
			4.0	0.36	0.42
BFL-3921	5W	0.2mΩ ~ 4mΩ	5.0	0.36	0.42
			0.2	1.42	1.42
			0.3	1.42	1.42
			0.5	0.76	0.76
			1.0	0.38	0.38
			2.0	0.69	0.69
BFL-5931	7W	0.2mΩ ~ 3mΩ	3.0	0.43	0.43
			0.2	1.42	1.42
			0.3	0.94	0.94
			0.5	0.56	0.56
			1.0	0.84	0.84
			2.0	0.40	0.40
			3.0	0.27	0.27

## Performance

Test item	Specifications	Test Methods
Thermal Shock	$\Delta R \leq \pm 0.5\%R$	-55°C / 175°C, 30min, 5cycles
Over Load	$\Delta R \leq \pm 0.5\%R$	5P <sub>n</sub> , 5S
Leaching	$\Delta R \leq \pm 0.5\%R$	260±2°C, 10±1S
Damp heat, Steady state	$\Delta R \leq \pm 1.0\%R$	-55°C, RH93±3%, 56d
Vibration	$\Delta R \leq \pm 0.5\%R$	10~200Hz, 98m/s <sup>2</sup> , 6h
Load life	$\Delta R \leq \pm 1.0\%R$	70°C, P <sub>n</sub> , 1000h
High temperature Exposure	$\Delta R \leq \pm 1.0\%R$	175°C, 1000h

## Pluse energy



## How To Order

Example

BFL	3W	0.3mΩ	± 2%	tape/bag	-M*/-A*	100
Type	Power	Nominal Value	Tolerance	Packaging	Material	Weight
BFL	3W 5W	0.3mΩ	± 2% ± 5% ± 10%	plastic bag box	-M*/-A*	100