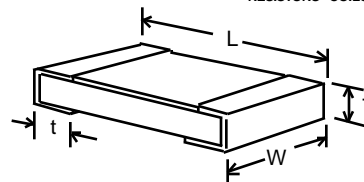


ULTRA PRECISION THIN FILM CHIP RESISTORS BLU SERIES

Type BLU1206A



FEATURES

- Industry's widest range of precision chip resistors!
- Tolerance to $\pm 0.01\%$, TCR to 5 ppm/°C
- Wattage rating up to 1/2W
- Unlimited selection of resistance values
- Low cost

CUSTOM OPTIONS

- Option 'P': Pulse resistant design
- Option 'M': Matched sets
- Option 'ER': Burn-In for Hi-Rel applications
- Option 'B': Increased power rating
- Option 'A': Marking of resis. code (3 or 4 digits), not available on BLU-0201 or BLU-0402

"BLU-CHIP" Series offers unparalleled performance!

RCD's expertise in the field of ultra-precision resistors since 1973, combined with the latest in automated chip resistor production equipment, enables precision chip resistors at prices comparable to lower grade devices. The BLU-chip design features unsurpassed stability levels, extremely low noise and voltage coefficient, as well as low inductance and capacitance. Consult factory for availability of non-standard values. EIA E-96 and E-24 values are standard in most sizes.

RCD Type	Wattage		Max. Working Voltage*	Max. Overload Voltage†	TCR (PPM/°C)	Standard Resistance Range ¹			Dimensions			
	Std	Opt.B				.01%-.05%	.1%-0.25%	0.5%-1%	L	W	T	t
BLU0201	.025W	.0375W	15V	30V	25.50	N/A	N/A	33Ω - 22K	.020±.004	.01±.002	.014±.004	.01±.005
					100	N/A	100Ω - 10K	10Ω - 22K	[.5±.1]	[.25±.05]	[.35±.1]	[.25±.12]
BLU0402	.05W	.075W	25V*	50V	25	N/A	100Ω - 10K	100Ω - 10K	.040±.004	.020±.002	.014±.004	.01±.005
					50,100	N/A	100Ω - 100K	10Ω - 100K	[1.0±.1]	[.5±.05]	[.35±.1]	[.25±.12]
BLU0603	.062W	.093W	50V*	100V	25.50	100Ω - 10K	100Ω - 33K	100Ω - 100K	.063±.008	.031±.006	.018±.006	.012±.008
					100	100Ω - 10K	10Ω - 33K	10Ω - 330K	[1.6±.2]	[.8±.15]	[.45±.15]	[.3±.2]
BLU0805	.10W	.125W	100V*	200V	5, 10	100Ω - 100K	100Ω - 100K	100Ω - 100K	.079±.006	.050±.006	.018±.006	.014±.008
					25,50,100	100Ω - 100K	100Ω - 1M	10Ω - 1M	[2.0±.15]	[1.25±.15]	[.45±.15]	[.30±.2]
BLU1206	.125W	.25W	150V*	300V	5, 10	100Ω - 100K	100Ω - 249K	100Ω - 249K	.126±.006	.063±.006	.020±.006	.020±.010
					25,50,100	100Ω - 100K	49.9Ω - 1M	10Ω - 1M	[3.2±.15]	[1.6±.15]	[.50±.15]	[.51±.25]
BLU1210	.25W	.5W	200V*	400V	10	100Ω - 100K	100Ω - 130K	100Ω - 130K	.126±.006	.098±.008	.024±.008	.020±.010
					25,50,100	100Ω - 100K	51Ω - 240K	10Ω - 510K	[3.2±.15]	[2.5±.2]	[.61±.2]	[.51±.25]
BLU1612	.33W	.66W	250V*	500V	10	100Ω - 100K	10Ω - 1M	10Ω - 1M	.165±.008	.118±.008	.028±.006	.030±.016
					25,50,100	100Ω - 100K	10Ω - 1M	10Ω - 1M	[4.2±.2]	[3.0±.2]	[.7±.15]	[.76±.4]

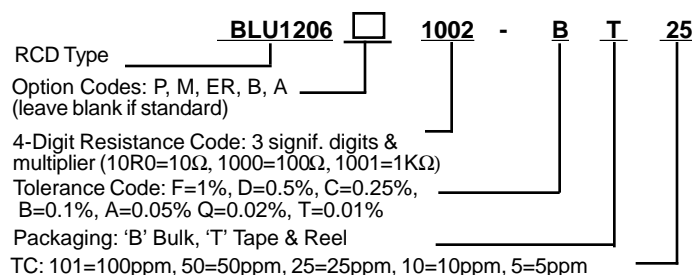
*Maximum working voltage determined by $E = \sqrt{PR}$, E should not exceed value listed. Increased voltage ratings available.
 †Extended range available, consult factory.

TYPICAL PERFORMANCE CHARACTERISTICS

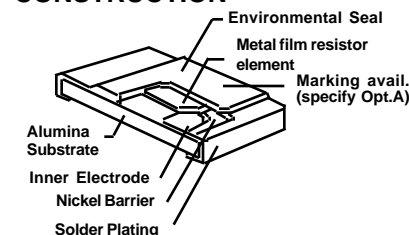
Requirements	Characteristics (5-25ppm)*	Test Method
Short Time Over Load	$\pm 0.05\%$ ($\pm 0.1\%$ Opt.B)	Rated W x 2.5, 5 seconds at 25°C (not to exceed Max Overload Voltage)
Resistance to Soldering Heat	$\pm 0.05\%$	260 \pm 5°C, 3 seconds
High Temperature Exposure	$\pm 0.1\%$	100 hours @ +125°C
Thermal Shock	$\pm 0.1\%$	-55°C to +125°C, 0.5 hours, 5 cycles
Moisture Resistance	$\pm 0.2\%$	MIL-STD-202 M.103 95% RH 1000 hrs
Load Life (1000 hours)	$\pm 0.1\%$ ($\pm 0.2\%$ Opt.B)	Rated W per Mil-PRF-55342 4.8.11.1
Extended Life (10,000 hrs)	$\pm 0.25\%$ ($\pm 0.4\%$ Opt.B)	Rated W per Mil-PRF-55342 4.8.11.1
Solderability	95% (Min.)	MIL-Std-202, Method 208
Shelf Life	100 ppm/year (Max.)	Room Temp. & Humidity, No-Load
Dielectric Withstanding Voltage	250V (100V 0402 & 0603)	60 Seconds, terminal to ceramic

*The typical ΔR level of chips with 50ppm TCR is double that of chips with 5 to 25ppm

P/N DESIGNATION:

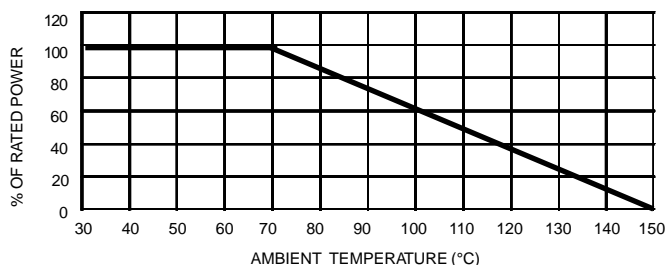


CONSTRUCTION



DERATING CURVE

Resistors may be operated up to full rated power with consideration of mounting density, pad geometry, PCB material, and ambient temperature.



RCD Components Inc., 520 E. Industrial Park Dr., Manchester, NH USA 03109
 Tel: (603) 669-0054 Fax: (603) 669-5455 E-mail: rcdcompinc@aol.com www.rcd-comp.com

FA013 Specifications subject to change without notice