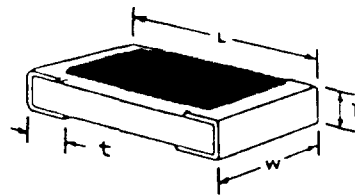


ULTRA PRECISION SURFACE MOUNT, THIN FILM CHIP RESISTORS BLU SERIES



- Standard tolerance to $\pm 0.01\%$ TC's to $\pm 5\text{ppm!}$
- All sizes available on Tape & Reel
- 0402 and 0603 sizes now available
- Wraparound terminations facilitate the soldering process whether vapor phase, IR reflow, or wave
- Unsurpassed environmental performance levels
- Extremely low noise and voltage coefficient
- Stable high frequency performance
- 4 - digit marking is available
- Hermetically-sealed chip now available! (refer to MHM Series)

“BLU-CHIP” Series offers unparalleled performance! Technological breakthrough is an industry first!

RCD Series BLU was developed to offer performance levels unattainable in thick-film chips. By combining RCD's expertise in the field of ultra-precision resistors, with the latest in automated chip resistor production equipment, we're able to offer a precision surface mount resistor series at prices comparable or even better than conventional leaded devices.

RCD Type	Wattage at 70°C	Voltage Rating*	TCR PPM/°C	Resistance Range			L(Length)	W(Width)	T(Thickness)	t(term width)
				0.1% †	0.25%	0.5%-1%				
BLU-0805	0.10W	100V	5, 10	100Ω-47K	100Ω-47K	100Ω-47K	.079 ± .006	.050 ± .006	.018 ± .006	.014 ± .008
			25, 50, 100	100Ω-100K	51Ω-100K	10Ω-100K	[2.0 ± .15]	[1.25 ± .15]	[.45 ± .15]	[.30 ± .2]
BLU-1206	0.125W	150V	5, 10	100Ω-100K	100Ω-100K	100Ω-100K	.126 ± .006	.063 ± .006	.020 ± .006	.020 ± .010
			25, 50, 100	100Ω-250K	51Ω-250K	10Ω-250K	[3.2 ± .15]	[1.6 ± .15]	[.50 ± .15]	[.51 ± .25]
BLU-1210	0.25W	200V	10	100Ω-200K	100Ω-200K	100Ω-200K	.126 ± .006	.098 ± .008	.024 ± .008	.020 ± .010
			25, 50, 100	100Ω-200K	51Ω-200K	10Ω-200K	[3.2 ± .15]	[2.5 ± .2]	[.61 ± .2]	[.51 ± .25]
BLU-1612**	0.33W	200V	10	100Ω-510K	100Ω-510K	100Ω-510K	.165 ± .008	.118 ± .008	.028 ± .006	.030 ± .016
			25, 50, 100	100Ω-510K	51Ω-510K	10Ω-510K	[4.2 ± .2]	[3.0 ± .2]	[.7 ± .15]	[.76 ± .4]

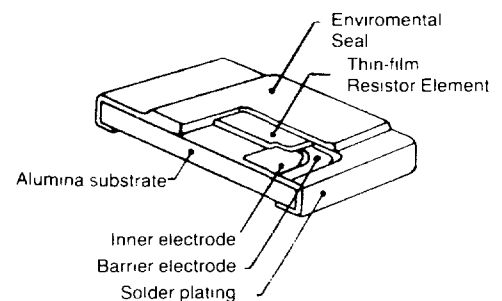
* Maximum working voltage determined by $E = \sqrt{PR}$, E should not exceed value listed in column above
 ** Information is preliminary. Consult factory for availability
 † $\pm 0.01\%$ tolerance available on 0805 and 1206 sizes.

PERFORMANCE CHARACTERISTICS*

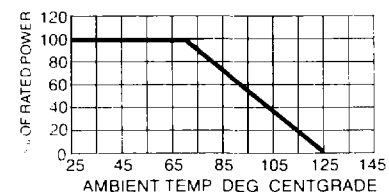
Requirements	Characteristics	Test Method
Short Time Over Load	$\pm (0.1\% + 0.05 \text{ Ohm})$	Rated Power $\times 2.5$, 5 seconds at 25°C
Resistance to Soldering Heat	$\pm (0.05\% + 0.05 \text{ Ohm})$	260 $\pm 5^\circ\text{C}$ 3 seconds
Dielectric Withstanding Voltage	$\pm (0.1\% + 0.05 \text{ Ohm})$	250V, 60 seconds
Temperature Cycling	$\pm (0.1\% + 0.05 \text{ Ohm})$	-55°C-125°C 0.5 hours 5 cycles
Moisture Resistance	$\pm (0.25\% + 0.05 \text{ Ohm})$	per EIA RS-186
Load Life	$\pm (0.25\% + 0.05 \text{ Ohm})$	Rated Voltage 1000 hours at 25°C
Insulation Resistance	Over 10 ⁴ M Ohm	MIL-Std-202, Method 302
Body Strength	$\pm (0.1\% + 0.05 \text{ Ohm})$	MIL-R-55342. 4. 7. 12
Vibration	$\pm (0.1\% + 0.05 \text{ Ohm})$	10 → 55 → 10 Hz 1 minute
Electrode Solderability	Over 95%	MIL-Std-202, Method 208
Shelf Life	100 ppm/year (Max)	Room Temp. & Humidity, No-Load

* Contact factory for engineering report

CONSTRUCTION



DERATING CURVE



HOW TO ORDER: BLU-1206 100Ω (ohm) 0.1% 25PPM T

RCD Type _____

Resistance Value _____

Tolerance ($\pm 0.01\%$, $\pm 0.05\%$, $\pm 1\%$, $\pm 25\%$, $\pm 5\%$, $\pm 1\%$) _____

Temperature Coefficient (± 5 , ± 10 , ± 25 , ± 50 , $\pm 100 \text{ ppm}/^\circ\text{C}$) _____

Packaging - 'B' is bulk, 'T' is Tape & Reel (RCD option if not specified by customer)