

DATA SHEET

Low Ohmic Chip Resistor

BL Series

RoHS Compliant & Halogen Free

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SCOPE

This specification describes BL series chip resistors with lead-free terminations made by thick film process.

ORDERING INFORMATION

Part number is identified by the series, size, tolerance, packing type, temperature coefficient, taping reel, resistance value and resistor terminations.

YAGEO ORDERING CODE

BL XXXX X R X 07 XXXX L

(1) (2) (3) (4) (5) (6)

(1) SIZE

1206

(2) TOLERANCE

F = ±1%

J = ±5%

(3) PACKAGING STYLE

R = Paper tape

(4) TEMPERATURE COEFFICIENT OF RESISTANCE

— = Ignored

(5) TAPING REEL

07 = 7 inch dia. Reel

(6) RESISTANCE VALUE

100 to 910 mohm (E24)

ORDERING EXAMPLE

The ordering code for a BL1206 chip resistor, value 0.1Ω with ±5% tolerance, supplied in 7-inch tape reel is:
BL1206JR-070R1L

MARKING

The “m” is used as decimal point. The other digits are significant.



Value =330mΩ

POWER RATING

Absolute maximum dissipation at $T_{amb}(70^{\circ}C) = 1/4W$ for 1206

Maximum permissible voltage= 200V for 1206

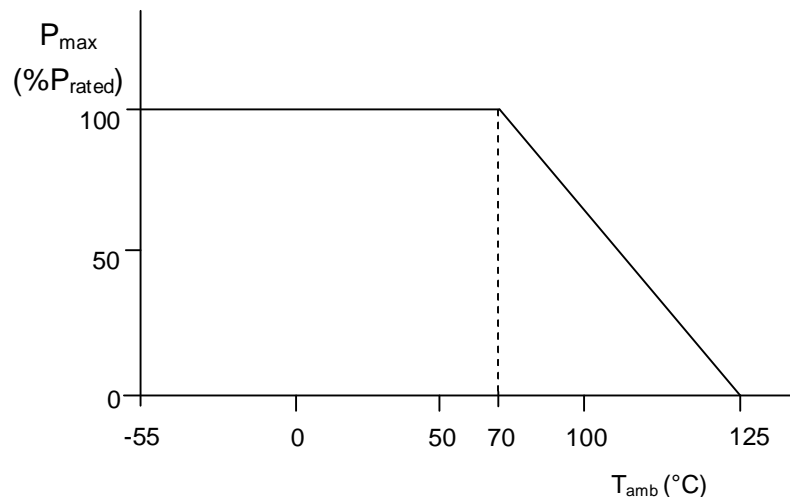
Rated Voltage: The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$V = \sqrt{P \times R}$$

Where V= Continuous rated DC or AC (rms) working voltage (V)

P= Rated power (W)

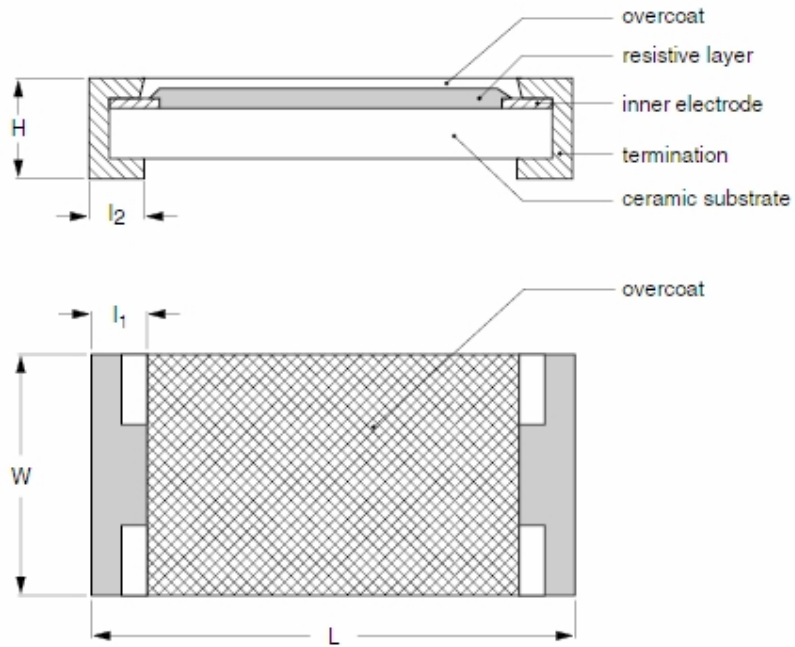
R= Resistance value (Ω)



ELECTRICAL CHARACTERISTICS

STYLE	BL1206
Derated to 0 Load at	+125°C
Resistance range	100m Ω ~ 910m Ω
Operating Temp. Range	-55°C ~ +125°C

DIMENSIONS



DIMENSION

TYPE	BL1206
L (mm)	3.10±0.20
W (mm)	1.60±0.15
H (mm)	0.60±0.10
L1 (mm)	0.50±0.20
L2 (mm)	0.50±0.20

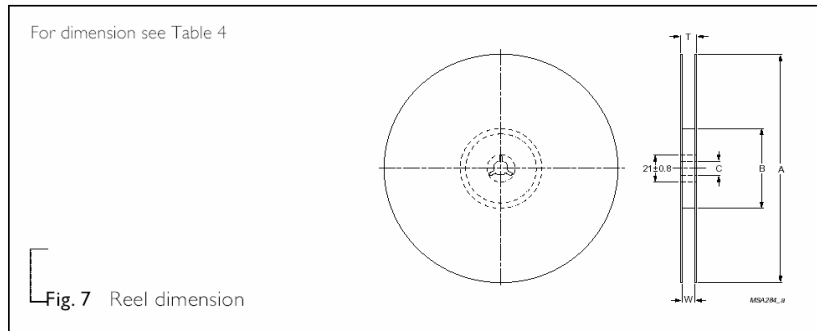
PACKING STYLE	REEL	DIMENSION	BL1206
Paper Taping Reel (R)		7" (178 mm)	5,000



TAPING REEL

Table 3

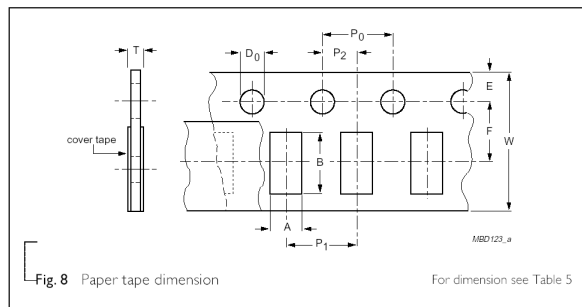
DIMENSION	7" Reel
Tape Width(mm)	8
ØA (mm)	180+0/-3
ØB (mm)	60+1/-0
ØC (mm)	13.0±0.2
W (mm)	9.0±0.3
T (mm)	11.4±1



PAPER TAPE SPECIFICATION

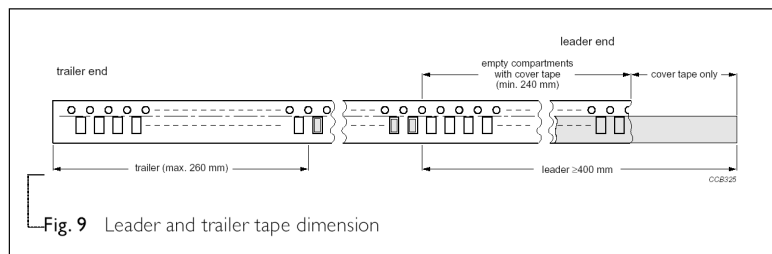
Table 4

DIMENSION	BL1206
A (mm)	1.9±0.1
B (mm)	3.5±0.1
W (mm)	8.0±0.2
E (mm)	1.75±0.1
F (mm)	3.5±0.05
P ₀ (mm)	4.0±0.1
P ₁ (mm)	4.0±0.05
P ₂ (mm)	2.0±0.05
ØD ₀ (mm)	1.5+0.1/-0
T (mm)	0.85±0.1



PACKING METHOD

LEADER/TRAILER TAPE SPECIFICATION



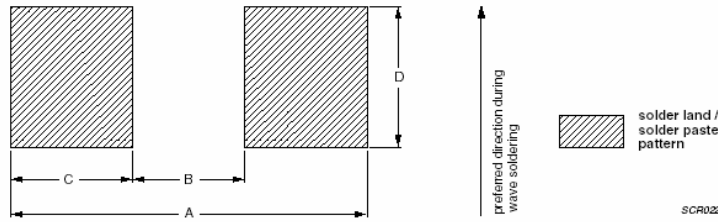
Test and Requirement

TYPE	PROCEDURE	REQUIREMENTS
Life	1000 hours at 70±2°C, applied RCWV 1.5 hours on, 0.5 hours off	±(3%+0.1Ω)
Thermal Shock	30 minutes at -55°C and 30 minutes at +125°C; 5 cycles	±(2%+0.05Ω)
Short Time Overload	Room temperature; applied 2.5 × RCWV or 2 x RCOV for 5 seconds, whichever is less	±(2%+0.05Ω)
Insulation Resistance		≥1,000 MΩ
Resistance To Soldering Heat	Unmounted chips; 260±5°C for 10±1 sec	±(2%+0.05Ω)
Solderability	Immerse the specimen in the solder pot at 245±3°C for 2±0.5 sec.	Well tinned(≥ 95% covered); no visible damage
Resistance to Solvent	Isopropylalcohol (C ₃ H ₇ OH) followed by brushing	±3.0% No visible damage
Endurance at upper temp	At 125±2°C, 1000 hours	±(3%+0.1Ω)



RECOMMENDED FOOTPRINT DIMENSIONS

Size Footprint	Dimensions		Code	
BL1206 (mm)	A	B	C	D
	4.2	2.2	1.0	1.5



RECOMMENDED SOLDERING CONDITIONS (CURVE)

Typical values (solid line)
Process limits (dotted lines)

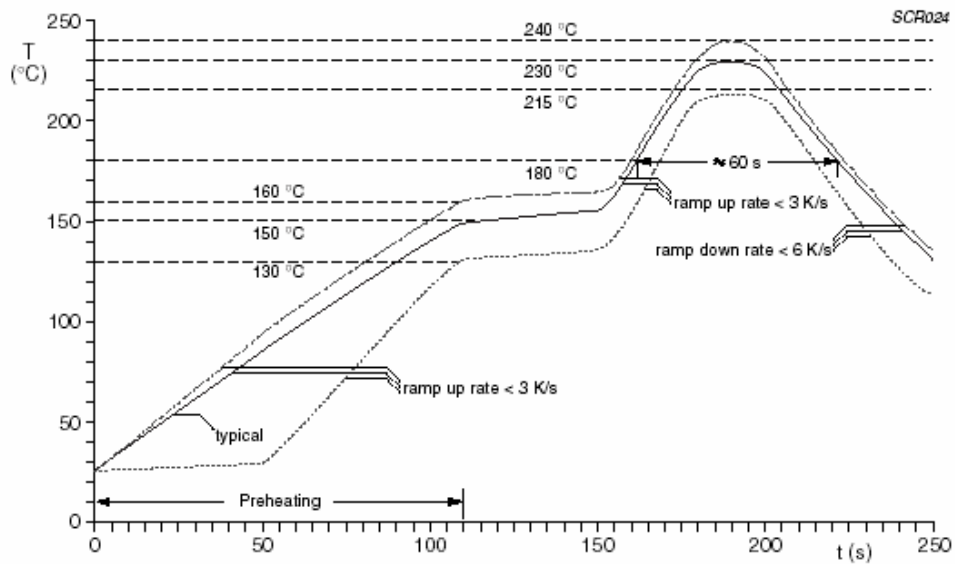


Fig. 11 Infrared soldering, forced air convection reflow soldering-temperature/time profile for SnPb solders

Typical values (solid line)
 Process limits (dotted lines)

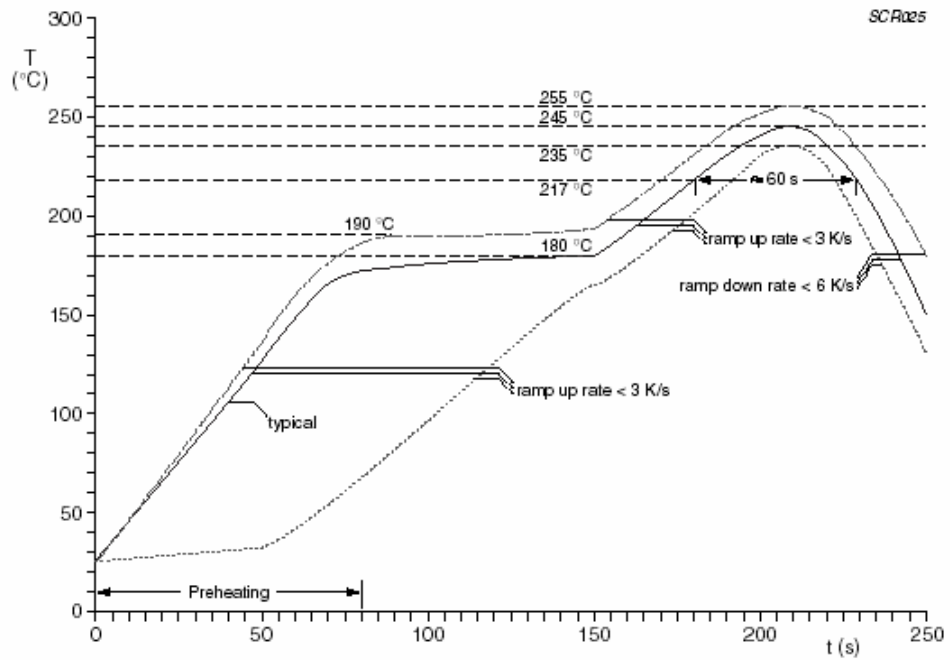


Fig 12 Infrared soldering, forced air convection reflow soldering-temperature/time profile for SnAgCu solders

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	2010-09-22		- First issue of this specification

单击下面可查看定价，库存，交付和生命周期等信息

[>>Yageo\(国巨\)](#)