



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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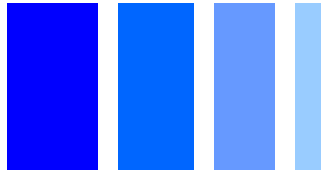
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# SMD Power Inductor CDRH64B



## Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 6.9 × 6.5 × 5.0mm Max.
- Product weight: 0.58g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

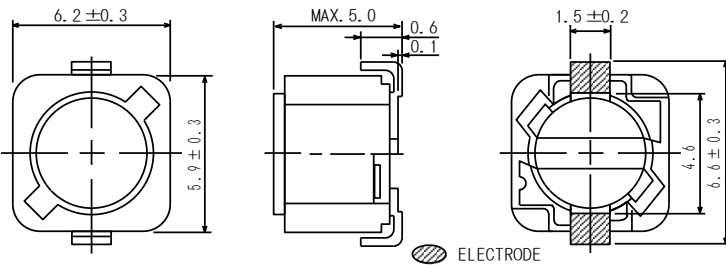
## Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 1000pcs per reel

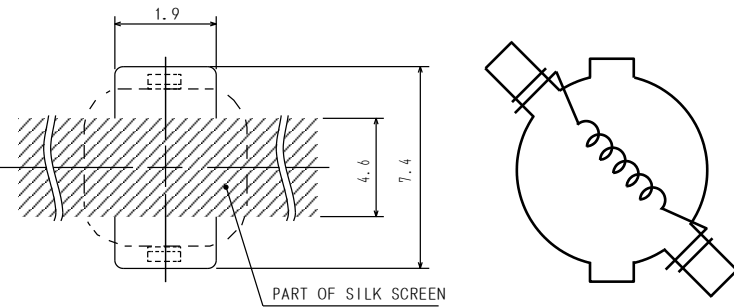
## Applications

- Ideally used in Notebook PC, LCD TV, Game machine, HDD, DSC/DVC, etc as DC-DC converter inductors.

## Dimension - [mm]



## Land pattern and Schematics - [mm]





## Electrical Characteristics

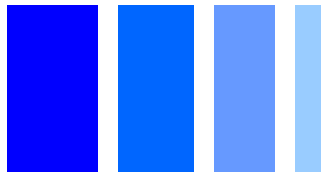
Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [ within ] ※1	D.C.R. ( $\Omega$ ) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH64BNP-100MC-B	100	10 $\pm$ 20%	0.12 (88m)	1.35
CDRH64BNP-120MC-B	120	12 $\pm$ 20%	0.13 (97m)	1.20
CDRH64BNP-150MC-B	150	15 $\pm$ 20%	0.18 (0.13)	1.10
CDRH64BNP-180MC-B	180	18 $\pm$ 20%	0.24 (0.18)	1.00
CDRH64BNP-220MC-B	220	22 $\pm$ 20%	0.27 (0.20)	0.91
CDRH64BNP-270MC-B	270	27 $\pm$ 20%	0.30 (0.22)	0.82
CDRH64BNP-330MC-B	330	33 $\pm$ 20%	0.33 (0.25)	0.75
CDRH64BNP-390MC-B	390	39 $\pm$ 20%	0.37 (0.27)	0.69
CDRH64BNP-470MC-B	470	47 $\pm$ 20%	0.52 (0.38)	0.62
CDRH64BNP-560MC-B	560	56 $\pm$ 20%	0.56 (0.41)	0.58
CDRH64BNP-680MC-B	680	68 $\pm$ 20%	0.63 (0.47)	0.52
CDRH64BNP-820MC-B	820	82 $\pm$ 20%	0.71 (0.53)	0.47
CDRH64BNP-101MC-B	101	100 $\pm$ 20%	1.03 (0.76)	0.43
CDRH64BNP-121MC-B	121	120 $\pm$ 20%	1.15 (0.85)	0.39
CDRH64BNP-151MC-B	151	150 $\pm$ 20%	1.68 (1.29)	0.35
CDRH64BNP-181MC-B	181	180 $\pm$ 20%	1.87 (1.44)	0.32
CDRH64BNP-221MC-B	221	220 $\pm$ 20%	2.08 (1.60)	0.29
CDRH64BNP-271MC-B	271	270 $\pm$ 20%	2.37 (1.82)	0.26
CDRH64BNP-331MC-B	331	330 $\pm$ 20%	2.67 (2.05)	0.23
CDRH64BNP-391MC-B	391	390 $\pm$ 20%	2.94 (2.26)	0.22
CDRH64BNP-471MC-B	471	470 $\pm$ 20%	3.93 (3.02)	0.20
CDRH64BNP-561MC-B	561	560 $\pm$ 20%	5.43 (4.18)	0.18
CDRH64BNP-681MC-B	681	680 $\pm$ 20%	7.32 (5.63)	0.17
CDRH64BNP-821MC-B	821	820 $\pm$ 20%	8.24 (6.34)	0.15
CDRH64BNP-102MC-B	102	1000 $\pm$ 20%	9.26 (7.13)	0.14

※1. Inductance measuring condition: at 1 kHz

※2. Rated current: The DC current at which the inductance decreases to 75% of it's nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

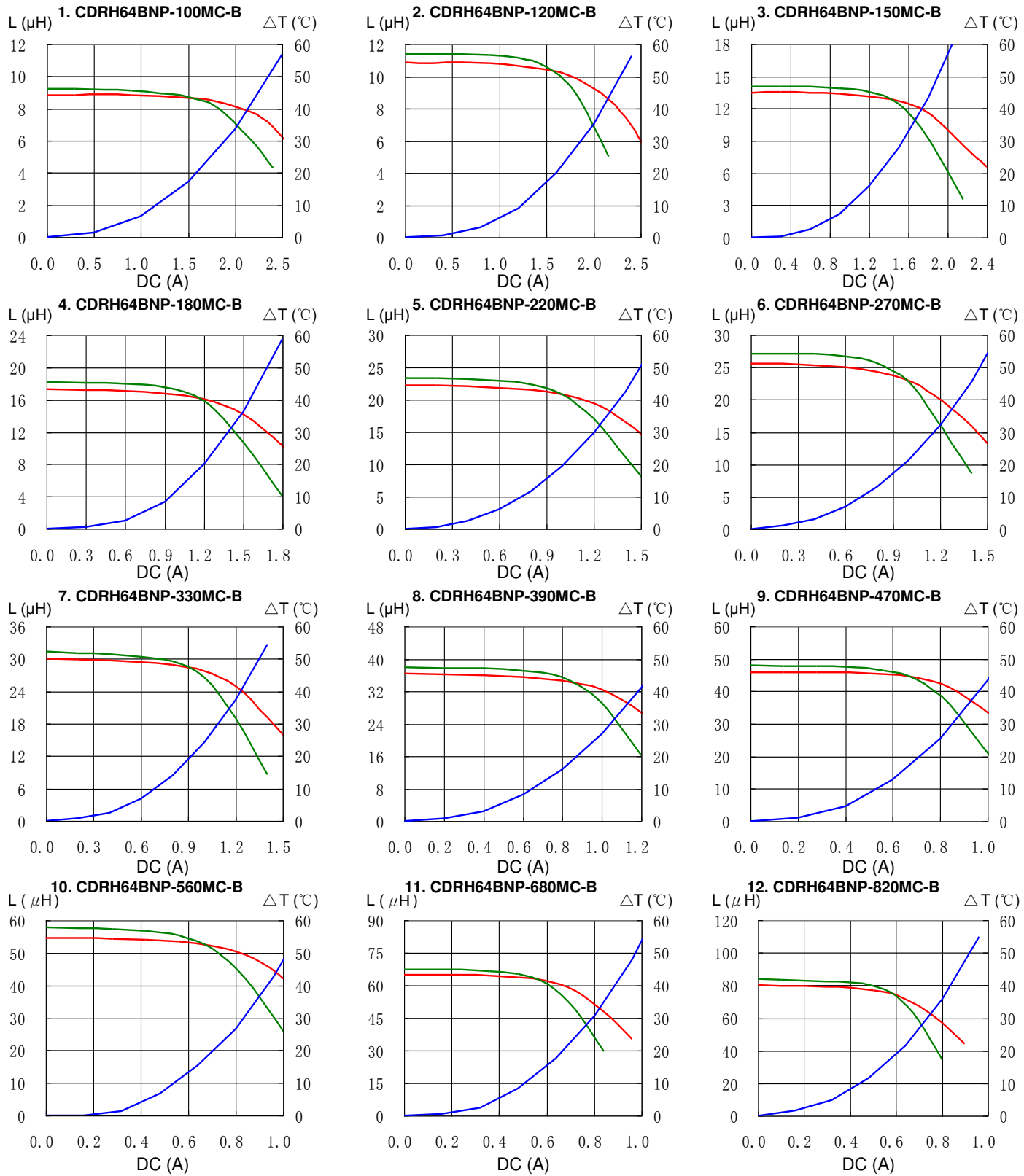


# SMD Power Inductor CDRH64B

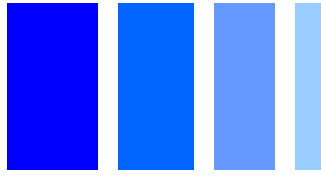


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

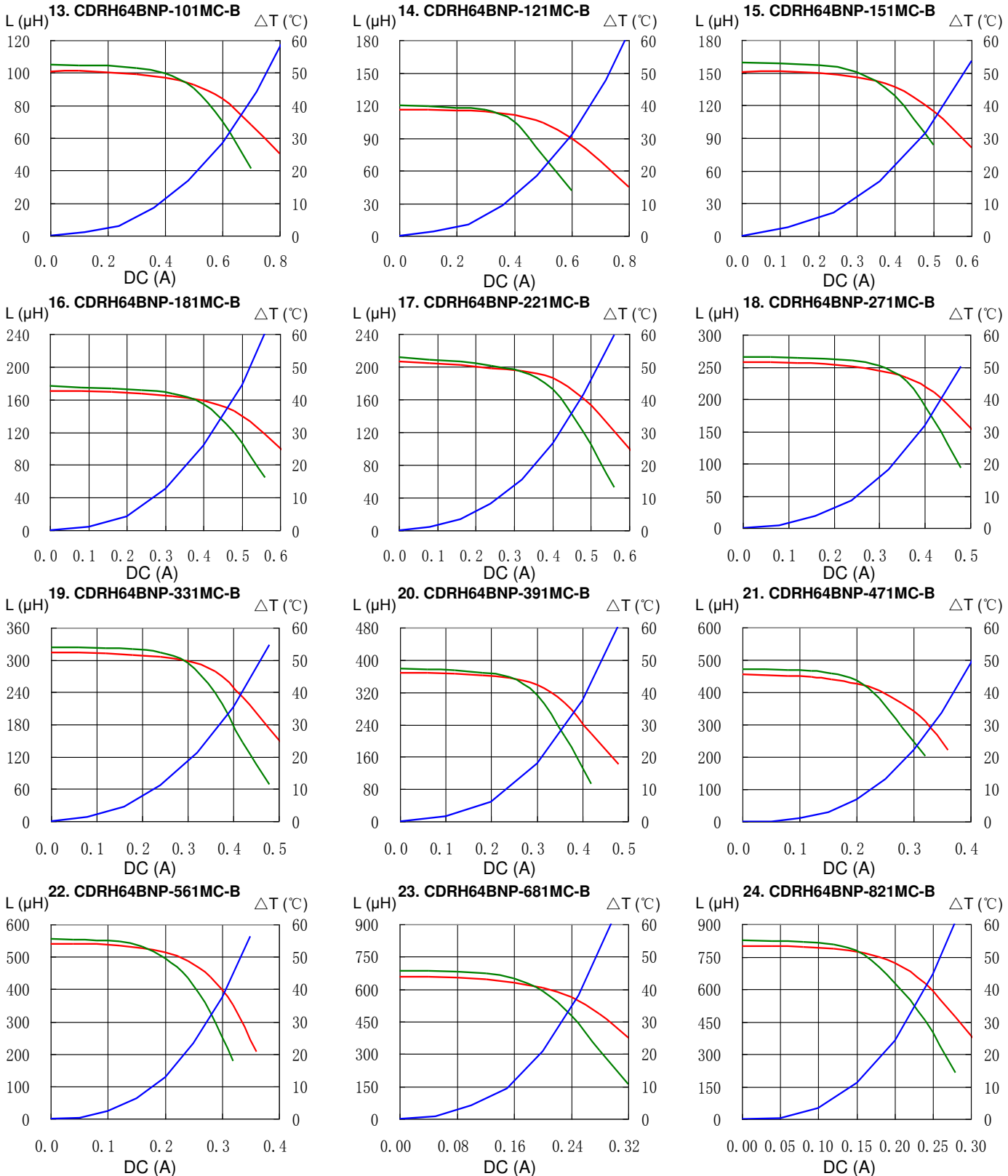


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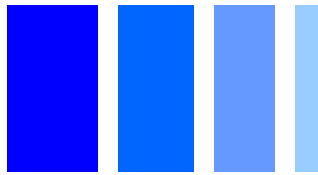


## Saturation Current & Temperature Rise Graph

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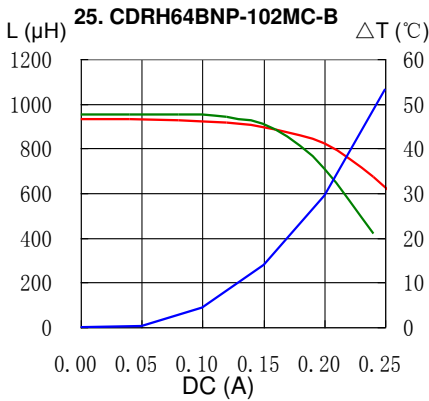


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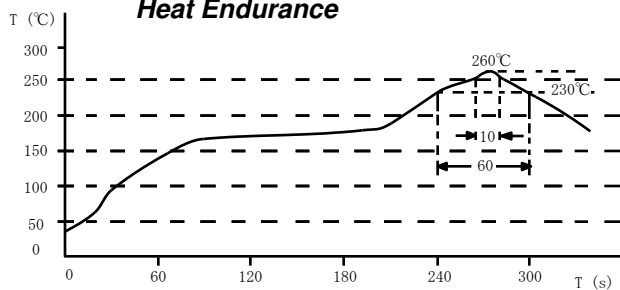
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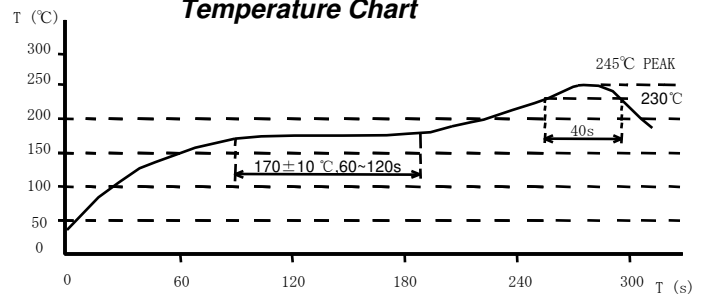


## Solder Reflow Condition

### Heat Endurance



### Temperature Chart



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### Hong Kong

Tel. +852-2880-6781  
FAX. +852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

### Saitama(Japan)

Tel. +81-48-691-7300  
FAX. +81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

### Chicago

Tel. +1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

### Shanghai

Tel. +86-21-5836-3299  
FAX. +86-21-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

### Seoul

Tel. +82-2-6237-0777  
FAX. +82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

### Obernzell

Tel. +49-8591-937-0  
FAX. +49-8591-937-103  
[contact@eu.sumida.com](mailto:contact@eu.sumida.com)

### Shenzhen

Tel. +86-755-8291-0228  
FAX. +86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

### Singapore

Tel. +65-6296-3388  
FAX. +65-6841-4426  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

### Neumarkt

Tel. +49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

### Taipei

Tel. +886-2-8751-2737  
FAX. +886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

### San Jose

Tel. +1-408-321-9660  
FAX. +1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)