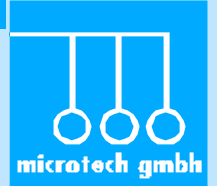


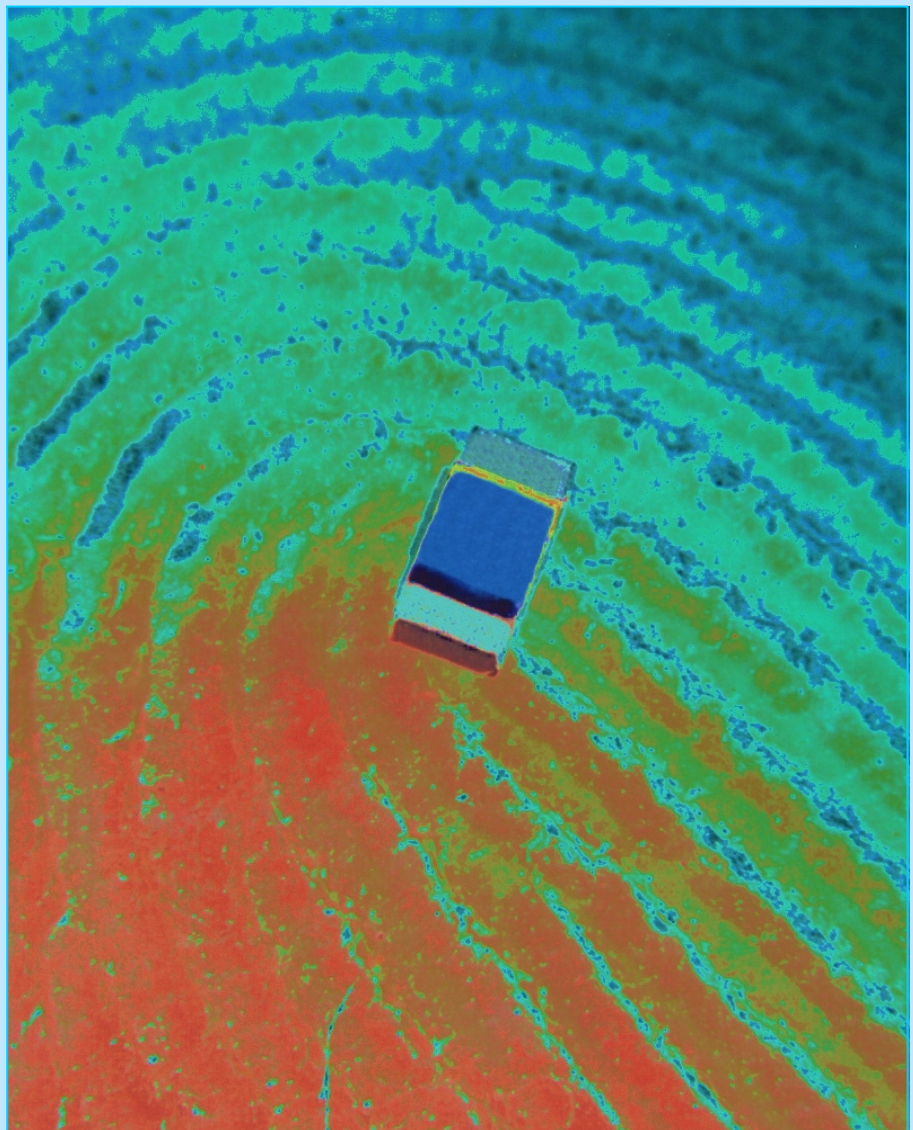
microtech GmbH electronic



Chip resistors

Networks

Sensors



Catalogue

Lead free since 1994



The **microtech GmbH electronic**, a midrange firm, was founded in october 1990 placed in Teltow, near the southern border of Berlin.

Our business field is the development, production and distribution of SMD-Chip Resistors, -Networks and -Temperature sensors.

The **microtech GmbH electronic** is established with well known customers in Germany and foreign countries as an supplier of high quality SMD-Chip Resistors in metal film and thick film technique.

Modern production technologies and a highly motivated development and production team, wich have more than 70 years of tradition of manufacturing resistors in Teltow and a traditional cooperation with leading research institutes, are the guarantee for new innovative products and technologies as well as that we can realize customer specific requirements.

Based on this innovative power it's possible for us to offer you

- close-tolerance thin film chip resistors
- low ohmic resistors
- high ohmic resistors
- trimmable resistors
- impulse resistant resistors
- high power resistors.

All elements wich we're produce and deliver naturally containing a lead free contact since more than 10 years, acc. RoHS (2002/95/EC).

Also we offer several special contacts, for example a special sticky contact.



The solid base of the highly quality standard of the products, delivering faithfulness and flexibility of the **microtech GmbH electronic**, is a computer based Production-, Organisation- und Quality-Management-System, wich is certified accordingly DIN EN ISO 9001:2000 by the TÜV Zertifizierungsstelle der TÜV NORD CERT GmbH & Co. KG.

Also we are impressive about the classification as an A-Supplier and high ratings by audits of meaningful electronic enterprises.

With well known customers we are practise modern logistic relationships.

Our Sales-Team as well as sales representatives and distributors in Germany and many other countries are waiting for your requests around the chip resistor and temperature sensor at any time.

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Series	Type	U _{max} (V)*	P ₇₀ (W)*	R-Range	R-Tolerance	TCR(ppm/K)
Metal film series (Thin film) CMF						
CMF	0402	50 (12,5)	0,063 (0,016)	100R - 47k	1	50
CMF	0603	75 (25)	0,1 (0,032)	100R - 30k	0,05/0,1	10
				100R - 100k	0,1/0,25/0,5/1,0	15
				10R - 511k	0,1/0,25/0,5/1,0	25
				1R - 511k	0,1/0,25/0,5/1,0	50
CMF	0805	150 (35)	0,125 (0,05)	100R - 50k	0,05/0,1	10
				100R - 200k	0,1/0,25/0,5/1,0	15
				10R - 1M	0,1/0,25/0,5/1,0	25
				1R - 1M	0,1/0,25/0,5/1,0	50
CMF	1206	200 (50)	0,25 (0,1)	100R - 50k	0,05/0,1	10
				100R - 200k	0,1/0,25/0,5/1,0	15
				10R - 1M	0,1/0,25/0,5/1,0	25
				1R - 2M	0,1/0,25/0,5/1,0	50

*) Values for stability classes 1.0, 0.5 and 0.25; Values in brakes for stability class 0.1

Thick film series CDF						
CDF	0402	50	0,063	1R-10M	1	50/100
CDF	0603	75	0,1	1R-10M	0,5/1	50/100
CDF	0805	150	0,125	1R-10M	0,5/1	50/100
CDF	1206	200	0,25	1R-10M	0,5/1	50/100

Low ohmic series CNF						
CNF	0402 to 2040	as CDF	as CDF	>0R020-1R *	5/10	500

*) 2010 and 2512: >0R051

High ohmic series CHF						
CHF	0603	75	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	0805	150	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	1206/1210/1218	200	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	2010	250	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	2512	300	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾

¹⁾ limited by max. duration voltage U_{eff}; ²⁾ higher values on request; ³⁾ at >330M only 5%-20%; ⁴⁾ at <500M TCR250

High power series CLF						
CLF	1210	200	0,33	1R-10M	1/2/5	100
CLF	1218	200	0,5	1R-10M	1/2/5	100
CLF	2010	200	0,5	1R-10M	1/2/5	100
CLF	2512	300	1,0	1R-10M	1/2/5	100
CLF	2040	250	2,0	1R-10M	1/2/5	100

TCR50 on request

Trimable series CRA / B						
CRA/B	0603	75	0,1	1R-10M	-5/-10/-20/-30	50/100
CRA/B	0805	150	0,125	1R-10M	-5/-10/-20/-30	50/100
CRA/B	1206	200	0,25	1R-10M	-5/-10/-20/-30	50/100
CRA/B	1210	200	0,33	1R-10M	-5/-10/-20/-30	50/100
CRA/B	1218/2010	200	0,5	1R-10M	-5/-10/-20/-30	50/100
CRA/B	2512	250	1,0	1R-10M	-5/-10/-20/-30	50/100

other types on request

Impuls resistant series CDI / CLI						
CDI	0603	75	0,1	1R-1M	10/20	100
CDI	0805	150	0,125	1R-1M	10/20	100
CDI	1206	200	0,25	1R-1M	10/20	100
CLI	1210	200	0,5	1R-1M	10/20	100
CLI	1218	200	1,0	1R-1M	10/20	100
CLI	2010	200	1,0	1R-1M	10/20	100
CLI	2512	250	1,0	1R-1M	10/20	100

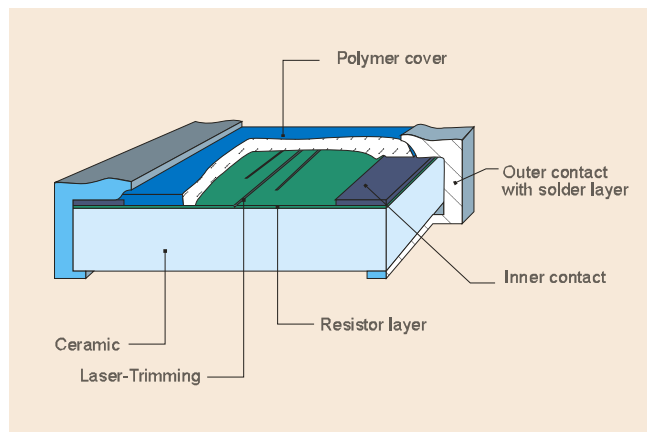
other types on request

Networks CNR						
CNR	1206-4	50	0,063 per element	100R-1M	1/5	50/100

SMD-Temperature sensors CPT / PTC						
Platinum CPT	1206/0805 ⁴⁾			100R, 500R, 1k		3850
Thick film PTC	1206			500R, 1k		3250

other types on request, ⁴⁾ in development, see data sheets for details

Types	Variants of contact	Common properties
Rectangular shape acc. EN 140401-801	Lead free , galvanic pure Tin-Contact	Thin film resistance layers highest stability and reliability high precise R-Coats (CuNiX, NiCr, CrSiX) Diffusion barrier, resistant against dissolution low current noise good impuls stability Coefficient of temperature 10 ppm/K
0402, 0603, 0805, 1206	Sticky contact Special contact with low rest permeability	Tolerances 0,05 % - 1 % Stability classes 0,1 – 1 RoHS conform



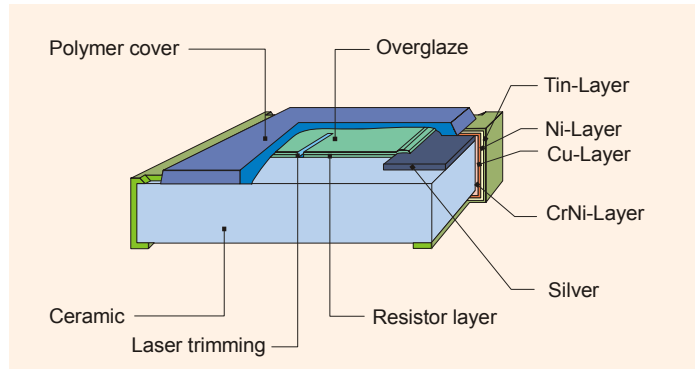
General layout

Series	Type	U _{max} (V)*	P ₇₀ (W)*	R-Range	R-Tolerance	TCR(ppm/K)
Metal film series (Thin film)						CMF
CMF	0402	50 (12,5)	0,063 (0,016)	100R - 47k	1	50
CMF	0603	75 (25)	0,1 (0,032)	100R - 30k	0,05/0,1	10
				100R - 100k	0,1/0,25/0,5/1,0	15
				10R - 511k	0,1/0,25/0,5/1,0	25
				1R - 511k	0,1/0,25/0,5/1,0	50
CMF	0805	150 (35)	0,125 (0,05)	100R - 50k	0,05/0,1	10
				100R - 200k	0,1/0,25/0,5/1,0	15
				10R - 1M	0,1/0,25/0,5/1,0	25
				1R - 1M	0,1/0,25/0,5/1,0	50
CMF	1206	200 (50)	0,25 (0,1)	100R - 50k	0,05/0,1	10
				100R - 200k	0,1/0,25/0,5/1,0	15
				10R - 1M	0,1/0,25/0,5/1,0	25
				1R - 2M	0,1/0,25/0,5/1,0	50

*) Values for stability classes 1.0, 0.5 and 0.25; Values in brakes for stability class 0.1

Test- and climatic category	Taping/Packaging	Ordering sample
Metal film series (Thin film)		
55/125/56 (Stability classes 0,25 up to 1) with soldering temperature <110 C	Acc. EN 60286-3 Bulk cargo, Card board tape Marking Bar coding	CMF 0805 33k2 0,5% 50ppm/K KP
10/85/56 (Stability class 0,1) with soldering temperature <110 C	Acc. EN 60286-3 Bulk cargo, Card board tape Marking Bar coding	CMF 0805 33k2 0,05% 15ppm/K KP

Types	Variants of contact	Custom properties
Rectangular shape acc. EN 140401-802 0402, 0603, 0805, 1206, 1210, 1218, 2010, 2512, 2040	Lead free , galvanic pure Tin-Contact Sticky contact Harmful gas resistant variant	Thick film resistance layers with high stability and reliability Diffusion barrier, resistant against dissolution Low coefficient of temperature and low tolerances RoHS conform



General layout

Series	Type	U _{max} (V)	P ₇₀ (W)	R-Range	R-Tolerance	TCR(ppm/K)
Thick film series						CDF
CDF	0402	50	0,063	1R-10M	1	50/100
CDF	0603	75	0,1	1R-10M	0,5/1	50/100
CDF	0805	150	0,125	1R-10M	0,5/1	50/100
CDF	1206	200	0,25	1R-10M	0,5/1	50/100
Low ohmic series						CNF
CNF	0402 to 2040	as CDF	as CDF	>0R020-1R *	5/10	500
*) 2010 and 2512: >0R051						
High ohmic series						CHF
CHF	0603	75	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	0805	150	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	1206/1210/1218	200	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	2010	250	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾
CHF	2512	300	¹⁾	>10M-1G ²⁾	1/2/5/10 ³⁾	500 ⁴⁾

¹⁾ limited by max. duration voltage U_{eff}; ²⁾ higher values on request; ³⁾ at >330M only 5%-20%; ⁴⁾ at <500M

Test- and climatic category	Taping/Packaging	Ordering sample
Thick film series		CDF
55/125/56	Acc. EN 60286-3 Bulk cargo, Card board tape Marking Bar coding	CDF 0805 33k2 1% 100ppm/K KP
Low ohmic series		CNF
55/125/56	Acc. EN 60286-3 Bulk cargo, 1210-2040 only Blister tape 0402-1206 only Card board tape Bar coding	CNF 0805 0R039 5% 500ppm/K KP
High ohmic series		CHF
55/125/56	Acc. EN 60286-3 Bulk cargo, 1210-2512 only Blister tape 0603-1206 only Card board tape Bar coding	CHF 0805 27M4 1% 500ppm/K KP

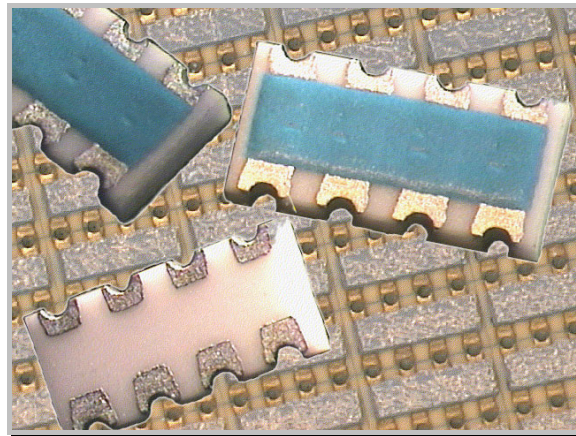
Types	Variants of contact	Custom properties
Rectangular shape acc. EN 140401-802 0402, 0603, 0805, 1206, 1210, 1218, 2010, 2512	Lead free , galvanic pure Tin-Contact CRB: Lead free , dive plumb contact	Thick film resistance layers with high stability and reliability Diffusion barrier, resistant against dissolution Low coefficient of temperature and low tolerances Special layout for high and highest electrical load (CLF) Either with (CRA) or without glass passivation (CRB) Special impuls resistant pastes (CDI) RoHS conform

Series	Type	U _{max} (V)	P ₇₀ (W)	R-Range	R-Tolerance	TCR(ppm/K)
High power series						CLF
CLF	1210	200	0,33	1R-10M	1/2/5	100
CLF	1218	200	0,5	1R-10M	1/2/5	100
CLF	2010	200	0,5	1R-10M	1/2/5	100
CLF	2512	300	1,0	1R-10M	1/2/5	100
CLF	2040	250	2,0	1R-10M	1/2/5	100
TCR50 on request						
Trimmable series						CRA / B
CRA/B	0603	75	0,1	1R-10M	-5/-10/-20/-30*	50/100
CRA/B	0805	150	0,125	1R-10M	-5/-10/-20/-30*	50/100
CRA/B	1206	200	0,25	1R-10M	-5/-10/-20/-30*	50/100
CRA/B	1210	200	0,33	1R-10M	-5/-10/-20/-30*	50/100
CRA/B	1218/2010	200	0,5	1R-10M	-5/-10/-20/-30*	50/100
CRA/B	2512	250	1,0	1R-10M	-5/-10/-20/-30*	50/100
Other types on request max. trimming factor: 1.3; higher trimming factors by reduction of U _{max} or P ₇₀ possibly *) alternatively also as ±10%, ±20% or ±30% available						
Impuls resistant series						CDI / CLI
CDI	0603	75	0,1	1R-1M	10/20	100
CDI	0805	150	0,125	1R-1M	10/20	100
CDI	1206	200	0,25	1R-1M	10/20	100
CLI	1210	200	0,5	1R-1M	10/20	100
CLI	1218	200	1,0	1R-1M	10/20	100
CLI	2010	200	1,0	1R-1M	10/20	100
CLI	2512	250	1,0	1R-1M	10/20	100

Other types on request, Test parameters acc. agreement,
Parameters of impuls load see DIN EN 140401-801 and DIN EN 140401-802.

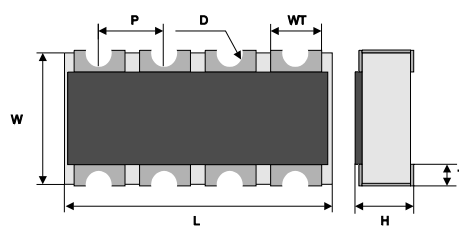
Test- and climatic category	Taping/Packaging	Ordering sample
High power series		CLF
55/125/56	Acc. EN 60286-3 Bulk cargo, Blister tape Bar coding	CLF 2010 27k4 5% 100ppm/K KB
Trimmable series		CRA / B
55/125/56	Acc. EN 60286-3 Bulk cargo, 1210-2512 only Blister tape 0402-1206 only Card board tape Bar coding	CRA 0805 27k4 -10% 50ppm/K NP
Impuls resistant series		CDI / CMI / CLI
55/125/56	Acc. EN 60286-3 Bulk cargo, 1210-2010 only Blister tape 0603-1206 only Card board tape Bar coding	CLI 1218 1R 10% 100ppm/K NB

Types	Variants of contact	Custom properties
1206-4 (4 x 0603)	Lead free, galvanic pure Tin-Contact	Thick film resistance layers with high stability and reliability Diffusion barrier, resistant against dissolution Low coefficient of temperature and low tolerances RoHS conform



Series	Type	U _{max} (V)	P ₇₀ (W)	R-Range	R-Tolerance	TCR(ppm/K)
Networks						CNR
CNR	1206-4	50	0,063 per element	100R-1M	1/5	50/100

Dimensions:



L	W	H	T	WT	P	D
3,2 0,10	1,6 0,10	0,6 0,10	0,3 0,10	0,5 0,10	0,80	0,3

All measures in mm

Test- and climatic category	Taping/Packaging	Ordering sample
Networks		CNR
55/125/56	Acc. EN 60286-3 Bulk cargo, Card board tape Marking Bar coding	CNR 1206-4 27k4 1% 50ppm/K KP

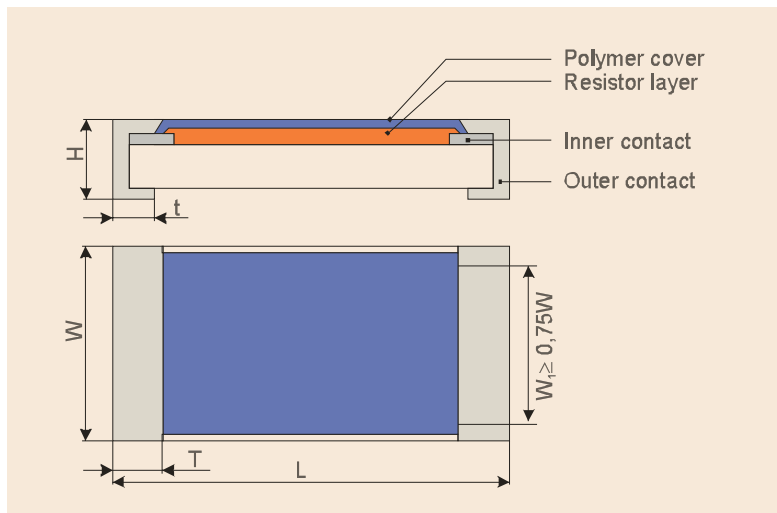
Types	Variants of contact	Custom properties
1206	Lead free , galvanic pure Tin-Contact	Thick film resistance layers with high stability and reliability Diffusion barrier, resistant against dissolution standardized nominal values acc. DIN very short reaction times high sensitivity at 3100ppm/K, good linearity high long time stability RoHS conform

Series	Type	P ₇₀ (W)	R-Range	R-Tolerance	TCR(ppm/K)
SMD-Temperature sensors					CPT / PTC
Platinum CPT	1206/0805 ⁴⁾		100R, 500R, 1k		3850
Thick film PTC	1206		500R, 1k		3250

other types on request, ⁴⁾ in development, Details see data sheets

Properties	Taping/Packaging	Ordering sample
SMD-Temperature sensors		
CPT		
Temperature range: -50°C ... +120 C Middle of TCR at range 0°C ... +100°C: $3,85 \times 10^{-3} \text{ K}^{-1}$ Tolerance class: B, (0,30K + 0,005K) Nominal resistant value at 0°C: 100R, 500R, 1000R (Frozen point resistant value)	Acc. EN 60286-3 Bulk cargo, Card board tape Bar coding	CPT 1206 100R KP
SMD-Temperature sensors		
PTC		
Nominal resistant value at 0°C: $R_0 = 1k \pm 0,5\%$, $R_0 = 500R \pm 0,5\%$ Coefficient of temperature: $3250 \pm 50 \text{ ppm/K}$ Reaction time: inside water 0,4 m/s: 0,6s inside air 1,0 m/s: 60s Temperature range: -55°C ... +150°C	Acc. EN 60286-3 Bulk cargo, Card board tape Bar coding	PTC 1206 1k NP

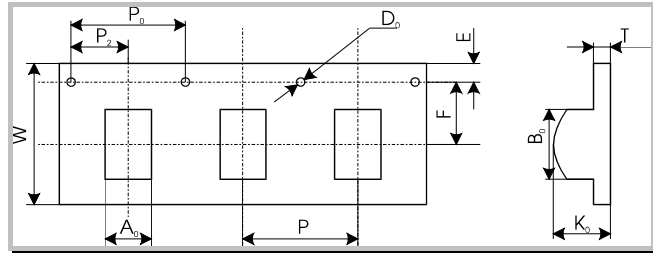
Chip resistor:



Dimensions – Chip resistor

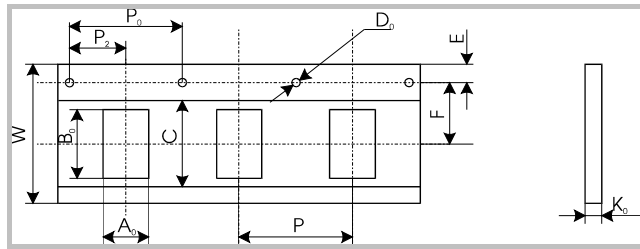
Type	Dimensions									
	L		W		H		t		T	
	min	max	min	max	min	max	min	Max	min	max
2040	4,90	5,30	10,05	10,35	0,50	0,80	0,35	0,85	0,35	0,85
2512	6,10	6,50	3,00	3,30	0,50	0,80	0,35	0,85	0,35	0,85
2010	4,80	5,20	2,35	2,65	0,50	0,80	0,35	0,85	0,35	0,85
1218	3,00	3,30	4,50	4,80	0,50	0,80	0,35	0,85	0,35	0,85
1210	3,00	3,30	2,35	2,65	0,50	0,80	0,35	0,85	0,35	0,85
1206	3,00	3,35	1,45	1,75	0,50	0,70	0,25	0,75	0,10	0,75
0805	1,85	2,15	1,10	1,40	0,40	0,70	0,20	0,60	0,10	0,60
0603	1,50	1,70	0,75	0,95	0,35	0,55	0,10	0,50	0,10	0,50
0402	0,89	1,19	0,45	0,55	0,25	0,35	0,05	0,15	0,05	0,15

Blister tape:



Type	A_0	B_0	K_0	F	E	W	P_2	P_0	P	T	D_0
1210	2,90 0,10	3,60 0,10	0,90 0,10	3,50 0,05	1,75 0,05	8,00 0,10	2,00 0,05	4,00 0,10	4,00 0,10	0,20 0,015	1,50 + 0,10
1218	3,55 0,10	5,10 0,10	0,90 0,10	5,50 0,05	1,75 0,10	12,00 0,10	2,00 0,05	4,00 0,10	4,00 0,10	0,30 0,02	1,50 + 0,10
2010	3,00 0,10	5,50 0,10	0,80 $\pm 0,10$	5,50 0,05	1,75 0,10	12,00 0,10	2,00 0,05	4,00 0,10	4,00 0,10	0,30 0,02	1,50 + 0,10
2512	3,40 0,10	6,70 0,10	0,80 $\pm 0,10$	5,50 0,05	1,75 0,10	12,00 0,10	2,00 0,05	4,00 0,10	4,00 0,10	0,30 0,02	1,50 + 0,10
2040	5,55 0,10	10,60 0,10	1,00 $\pm 0,10$	5,50 0,05	1,75 0,10	16,00 0,10	2,00 0,05	4,00 0,10	8,00 0,10	0,30 0,02	1,50 + 0,10

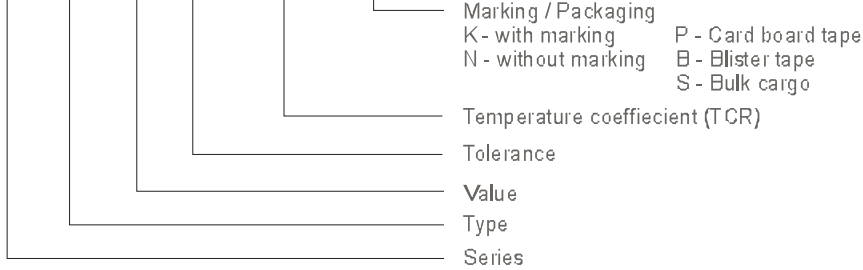
Card board tape:



Type	A_0	B_0	K_0	F	E	W	P_2	P_0	P	C	D_0
0402	0,80 $\pm 0,10$	1,35 $\pm 0,10$	0,45 $\pm 0,10$	3,50 0,05	1,75 0,05	8,00 0,10	2,00 0,05	4,00 0,10	4,00 0,10	0,20 0,015	1,50 + 0,10
0603	1,00 $\pm 0,10$	1,80 0,10	0,80 0,10	3,50 $\pm 0,05$	1,75 $\pm 0,00$	8,00 0,20	2,00 0,05	4,00 0,10	4,00 0,10	5,00 0,20	1,50 + 0,10
0805	1,65 $\pm 0,20$	2,40 0,20	0,80 0,10	3,50 $\pm 0,05$	1,75 $\pm 0,00$	8,00 0,20	2,00 0,05	4,00 0,10	4,00 0,10	5,00 0,20	1,50 + 0,10
1206	2,00 0,20	3,60 0,20	0,80 0,10	3,50 0,05	1,75 0,00	8,00 0,20	2,00 0,05	4,00 0,10	4,00 0,10	5,00 0,20	1,50 + 0,10

Layout of ordering name:

CDF 0805 33k2 1% 100ppm/K KP



We offer following packaging types:

Blister tape		Card board tape		Bulk cargo
Type	PV ¹⁾	Type	PV	
		0402	20.000 / 10.000	all types < 1.000 piec.
		0603	20.000 / 10.000 / 5.000	
		0805	20.000 / 10.000 / 5.000	
		1206	20.000 / 10.000 / 5.000	
1210	4.000			
1218	4.000/16.000			
2010	4.000			
2512	4.000			
2040	5.000			

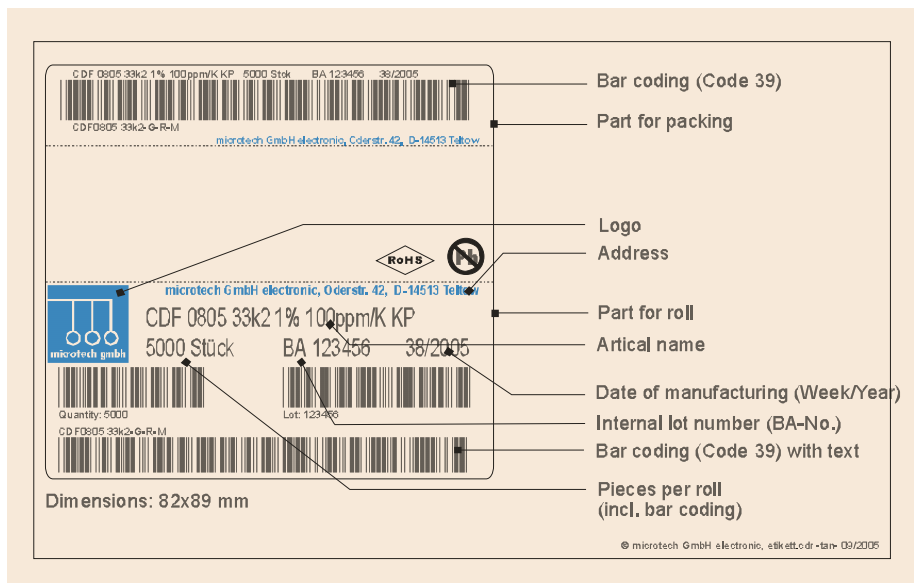
¹⁾ PV: Packaging value as pieces

Our taped chip resistors will be delivered by rolls with single outer packing. Each packing is labelled as shown in figure. The attachment of the label is also a sealing of the packing and its possible to read the customer specific bar code without opening the packing.

Because of using bar codes the automated processing of the delivery data is guaranteed. We are using code 39 with high density as standard. On request and if possible, other codes or resolutions can be realized.

Together with your order you can give us a customer tailored name, word or description of up to max. 19 characters wich will be printed on the label as extra bar coding line.

The layout of the label is shown at the following figure:



Layout of shipping label (Standard)

Remark: For each request please tell us our internal lot number (BA-No.).

We are waiting for you:

Our sales and purchase teams

Tel.: +49/3328/30 824 18 Fax: +49/3328/47 39 19

e-Mail: info@microtech-teltow.de

vertrieb@microtech-teltow.de

einkauf@microtech-teltow.de

Section sale

(vertrieb@microtech-teltow.de)

Peter Müller (Man.)

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Our sales and purchase team

Address:

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We are looking forward to hearing from you soon. Please call us. We will give you competent answers to your questions about terms of delivery and advising you in matters regarding applications, parameters, tests or samples.

You will reaching the **management**, the **quality department** and the **R&D department** via our secretary:

Tel.: +49/3328 30 824 0 Fax: +49/3328 47 46 08

Company managing director:	Ing. Joachim Barthel	jbarthel@microtech-teltow.de
Managing director Controlling:	Dipl.-Ing. Jörg Stahnke	jestahnke@microtech-teltow.de
Managing director Quality dep.:	Dipl.-Phys. Konrad Markgraf	kmarkgraf@microtech-teltow.de
Managing director R&D dep. (Thin film):	Dr. Alexander Dück	adueck@microtech-teltow.de
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You will reaching the department of **marketing, sales and purchase**:

Tel.: +49/3328 30 824 18 Fax: +49/3328 47 39 19

Manager Sales:	Ing. Peter Müller	pmueller@microtech-teltow.de
Manager Einkauf:	Enrico Schlüter	eschlueter@microtech-teltow.de

Of course we are present in the **Internet** with:

<http://www.microtech-teltow.de>

our homepage – there you can also receive particular informations about our company and products.

Hints and reviews please send via eMail to:

Dipl.-Ing. Kl.-Christian Tandler / webmaster@microtech-teltow.de or chtandler@microtech-teltow.de

Via **e-Mail** you can reaching our company areas:

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Quality manager:	qualitaet@microtech-teltow.de
Controlling:	verwaltung@microtech-teltow.de
Marketing/Sale:	vertrieb@microtech-teltow.de
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HaS Lanškroun

Eastern Europe

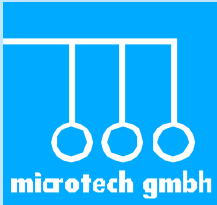
Dobrovského 49

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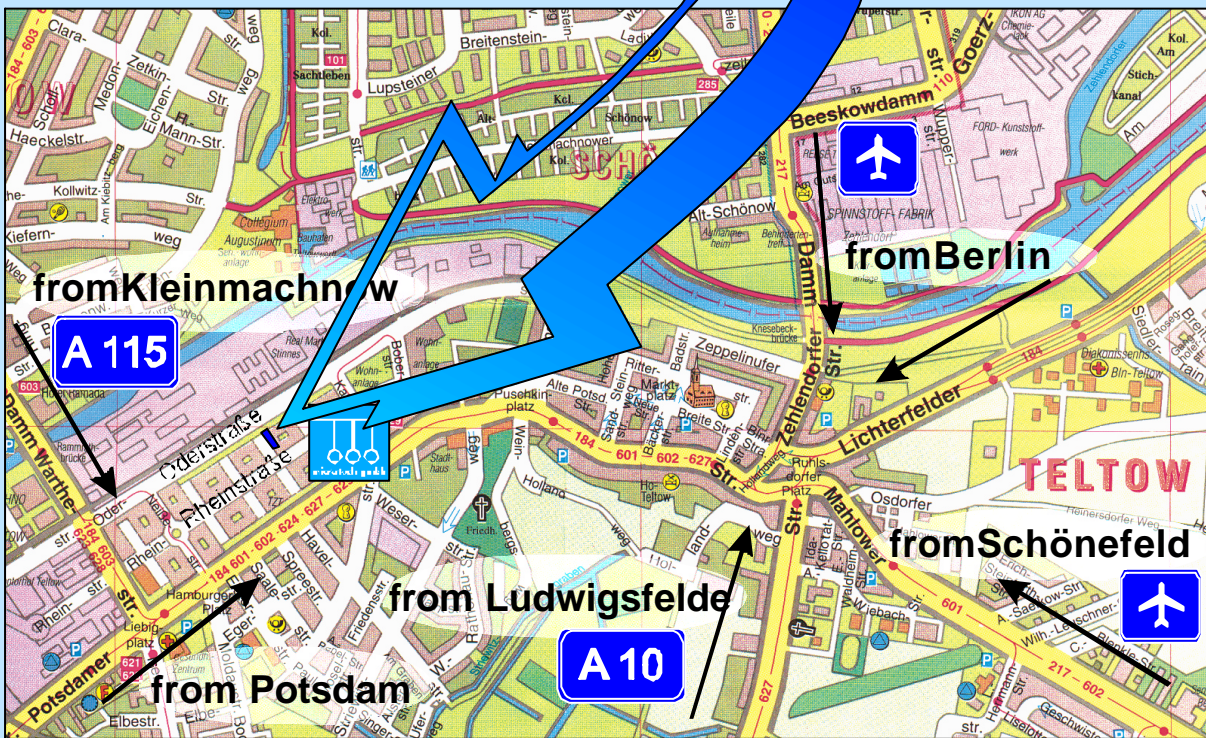
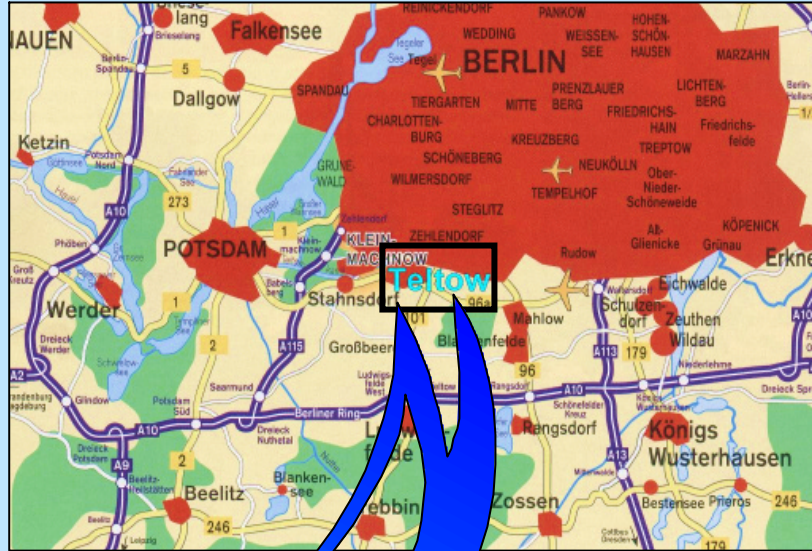
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