

# DATA SHEET

## GENERAL PURPOSE CHIP RESISTORS

RC1206  
5%, 1%  
RoHS compliant



## SCOPE

This specification describes RC1206 series chip resistors with lead-free terminations made by thick film process.

## APPLICATIONS

- All general purpose application

## FEATURES

- Halogen Free Epoxy
- RoHS compliant
  - Products with lead free terminations meet RoHS requirements
  - Pb-glass contained in electrodes, resistor element and glass are exempted by RoHS
- Reducing environmentally hazardous wastes
- High component and equipment reliability
- Saving of PCB space
- None forbidden-materials used in products/production

## ORDERING INFORMATION - GLOBAL PART NUMBER & 12NC

Both part numbers are identified by the series, size, tolerance, packing type, temperature coefficient, taping reel and resistance value.

### YAGEO BRAND ordering code

### GLOBAL PART NUMBER (PREFERRED)

**RC1206** **X R** - **XX XXXX L**  
 (1) (2) (3) (4) (5) (6)

#### (1) TOLERANCE

F =  $\pm 1\%$

J =  $\pm 5\%$  (for Jumper ordering, use code of J)

#### (2) PACKAGING TYPE

R = Paper taping reel

#### (3) TEMPERATURE COEFFICIENT OF RESISTANCE

- = Base on spec

#### (4) TAPING REEL

07 = 7 inch dia. Reel

10 = 10 inch dia. Reel

13 = 13 inch dia. Reel

#### (5) RESISTANCE VALUE

There are 2~4 digits indicated the resistor value. Letter R/K/M is decimal point, no need to mention the last zero after R/K/M, e.g. 1K2, not 1K20.

Detailed resistance rules show in table of "Resistance rule of global part number".

#### (6) DEFAULT CODE

Letter L is system default code for order only <sup>(Note)</sup>

Resistance rule of global part number	
Resistance code rule	Example
0R	0R = Jumper
XXXX (1 to 9.76 $\Omega$ )	1R = 1 $\Omega$ 1R5 = 1.5 $\Omega$ 9R76 = 9.76 $\Omega$
XXRX (10 to 97.6 $\Omega$ )	10R = 10 $\Omega$ 97R6 = 97.6 $\Omega$
XXXR (100 to 976 $\Omega$ )	100R = 100 $\Omega$
XKXX (1 to 9.76 K $\Omega$ )	1K = 1,000 $\Omega$ 9K76 = 9760 $\Omega$
XMXX (1 to 9.76 M $\Omega$ )	1M = 1,000,000 $\Omega$ 9M76 = 9,760,000 $\Omega$

### ORDERING EXAMPLE

The ordering code of a RC1206 chip resistor, value 56  $\Omega$  with  $\pm 1\%$  tolerance, supplied in 7-inch tape reel is: RC1206FR-0756RL.

### NOTE

1. All our RSMD products meet RoHS compliant and Halogen Free. "LFP" of the internal 2D reel label mentions "Lead Free Process"
2. On customized label, "LFP" or specific symbol can be printed

**PHYCOMP BRAND ordering codes**

Both GLOBAL PART NUMBER (preferred) and I2NC (traditional) codes are acceptable to order Phycomp brand products.

**GLOBAL PART NUMBER (PREFERRED)**

For detailed information of GLOBAL PART NUMBER and ordering example, please refer to page 2.

**I2NC CODE****2322 / 2350 XXX XXXXX L**

(1) (2) (3) (4)

TYPE/ I206	START IN <sup>(1)</sup>	TOL. (%)	RESISTANCE RANGE	PAPER / PE TAPE ON REEL (units) <sup>(2)</sup>		
				5,000	10,000/not preferred	20,000
RC01	2322	±5%	1 to 10 MΩ	711 61xxx	711 51xxx	711 81xxx
RC02	2322	±1%	1 to 10 MΩ	724 6xxxx	724 7xxxx	724 8xxxx
HRC01	2350	±5%	11 to 22 MΩ	520 10xxx	-	-
Jumper	2322	-	0 Ω	711 91032	711 91005	711 92004

(1) The resistors have a 12-digit ordering code starting with 2322 / 2350.

(2) The subsequent 4 or 5 digits indicate the resistor tolerance and packaging.

(3) The remaining 4 or 3 digits represent the resistance value with the last digit indicating the multiplier as shown in the table of "Last digit of I2NC".

(4) Letter L is system default code for order only (Note)

**ORDERING EXAMPLE**

The ordering code of a RC02 resistor, value 56 Ω with ±1% tolerance, supplied in tape of 10,000 units per reel is: 232272465609L or RC1206FR-0756RL.

**NOTE**

- All our RSMD products meet RoHS compliant and Halogen Free. "LFP" of the internal 2D reel label mentions "Lead Free Process"
- On customized label, "LFP" or specific symbol can be printed

Last digit of I2NC

Resistance decade <sup>(3)</sup> Last digit

0.01 to 0.0976 Ω	0
0.1 to 0.976 Ω	7
1 to 9.76 Ω	8
10 to 97.6 Ω	9
100 to 976 Ω	1
1 to 9.76 KΩ	2
10 to 97.6 KΩ	3
100 to 976 KΩ	4
1 to 9.76 MΩ	5
10 to 97.6 MΩ	6

Example:	0.02 Ω	=	0200 or 200
	0.3 Ω	=	3007 or 307
	1 Ω	=	1008 or 108
	33 KΩ	=	3303 or 333
	10 MΩ	=	1006 or 106

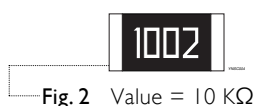
## MARKING

### RC1206



E-24 series: 3 digits

First two digits for significant figure and 3rd digit for number of zeros



Both E-24 and E-96 series: 4 digits

First three digits for significant figure and 4th digit for number of zeros

For further marking information, please see special data sheet "Chip resistors marking"

## CONSTRUCTION

The resistor is constructed on top of a high-grade ceramic body. Internal metal electrodes are added on each end to make the contacts to the thick film resistive element. The composition of the resistive element is a noble metal imbedded into a glass and covered by a second glass to prevent environment influences. The resistor is laser trimmed to the rated resistance value. The resistor is covered with a protective epoxy coat, finally the two external terminations (matte tin on Ni-barrier) are added. See fig.3

## DIMENSIONS

Table I	
TYPE	RC1206
L (mm)	$3.10 \pm 0.10$
W (mm)	$1.60 \pm 0.10$
H (mm)	$0.55 \pm 0.10$
$l_1$ (mm)	$0.45 \pm 0.20$
$l_2$ (mm)	$0.40 \pm 0.20$

## OUTLINES

For dimension see Table I

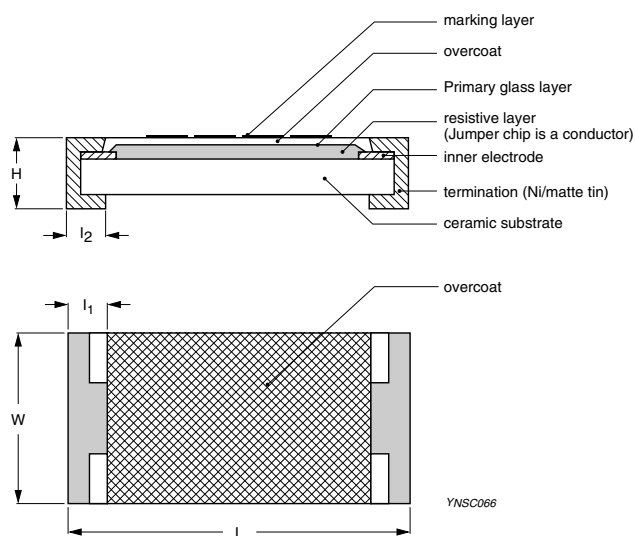


Fig. 3 Chip resistor outlines

**ELECTRICAL CHARACTERISTICS**

Table 2

CHARACTERISTICS	RC1206 1/4 W
Operating Temperature Range	-55 °C to +155 °C
Maximum Working Voltage	200 V
Maximum Overload Voltage	400 V
Dielectric Withstanding Voltage	500 V
Resistance Range	5% (E24) 1 Ω to 22 MΩ
	1% (E24/E96) 1 Ω to 10 MΩ
	Zero Ohm Jumper < 0.05 Ω
Temperature Coefficient	1 Ω ≤ R ≤ 10 Ω ±200 ppm/°C
	10 MΩ < R ≤ 22 MΩ ±200 ppm/°C
	10 Ω < R ≤ 10 MΩ ±100 ppm/°C
Jumper Criteria	Rated Current 2 A
	Maximum Current 10 A

**FOOTPRINT AND SOLDERING PROFILES**

For recommended footprint and soldering profiles, please see the special data sheet “Chip resistors mounting”.

**PACKING STYLE AND PACKAGING QUANTITY**

Table 3 Packing style and packaging quantity

PRODUCT TYPE	PACKING STYLE	REEL DIMENSION	QUANTITY PER REEL
RC1206	Paper Taping Reel (R)	7" (178 mm)	5,000 units
		10" (254 mm)	10,000 units
		13" (330 mm)	20,000 units

**NOTE**

1. For paper tape and reel specification/dimensions, please see the special data sheet “Chip resistors packing”

**FUNCTIONAL DESCRIPTION****POWER RATING**

RC1206 rated power at 70°C is 1/4 W

**RATED VOLTAGE**

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

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

or max. working voltage whichever is less

Where

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

P=Rated power (W)

R=Resistance value (Ω)

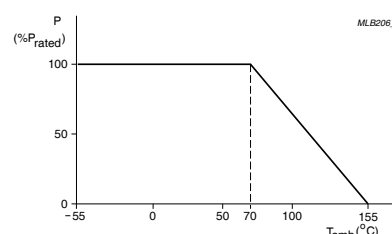


Fig. 4 Maximum dissipation (P) in percentage of rated power as a function of the operating ambient temperature ( $T_{amb}$ )

**TESTS AND REQUIREMENTS****Table 4** Test condition, procedure and requirements

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
Temperature Coefficient of Resistance (T.C.R.)	IEC 60115-1 4.8	At +25/-55 °C and +25/+125 °C  <b>Formula:</b> $T.C.R = \frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \text{ (ppm/°C)}$  Where t <sub>1</sub> =+25 °C or specified room temperature t <sub>2</sub> =-55 °C or +125 °C test temperature R <sub>1</sub> =resistance at reference temperature in ohms R <sub>2</sub> =resistance at test temperature in ohms	Refer to table 2
Life/Endurance	IEC 60115-1 4.25.1	At 70±5 °C for 1,000 hours, RCWV applied for 1.5 hours on, 0.5 hour off, still air required	±(1.0%+0.05 Ω) for 1% tol. ±(3.0%+0.05 Ω) for 5% tol. <100 mΩ for Jumper
High Temperature Exposure/Endurance at Upper Category Temperature	IEC 60068-2-2	1,000 hours at 155±5 °C, unpowered	±(1.0%+0.05 Ω) for 1% tol. ±(2.0%+0.05 Ω) for 5% tol. <50 mΩ for Jumper
Moisture Resistance	MIL-STD-202G Method-106G	Each temperature / humidity cycle is defined at 8 hours, 3 cycles / 24 hours for 10d. with 25 °C / 65 °C 95% R.H, without steps 7a & 7b, unpowered  Parts mounted on test-boards, without condensation on parts  Measurement at 24±2 hours after test conclusion	±(0.5%+0.05 Ω) for 1% tol. ±(2.0%+0.05 Ω) for 5% tol. <100 mΩ for Jumper
Thermal Shock	MIL-STD-202G Method-107G	-55/+125 °C  Number of cycles required is 300. Devices unmounted  Maximum transfer time is 20 seconds, Dwell time is 15 minutes. Air – Air	±(0.5%+0.05 Ω) for 1% tol. ±(1%+0.05 Ω) for 5% tol. <50 mΩ for Jumper
Short Time Overload	IEC60115-1 4.13	2.5 times of rated voltage or maximum overload voltage whichever is less for 5 sec at room temperature	±(1.0%+0.05 Ω) for 1% tol. ±(2.0%+0.05 Ω) for 5% tol. <50 mΩ for Jumper No visible damage

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS														
Board Flex/ Bending	IEC 60068-2-21	Chips mounted on a 90mm glass epoxy resin PCB (FR4) 2 mm bending Bending time: 60±5 seconds	±(1.0%+0.05 Ω) for 1%, 5% tol. <50 mΩ for Jumper No visible damage														
Low Temperature Operation	IEC 60068-2-1	The resistor shall be subjected to a DC rated voltage for 1.5 h-on, 0.5 h-off, at -55±3 °C This constitutes shall be repeated for 96 hours However the applied voltage shall not exceed the maximum operating voltage	±(0.5%+0.05 Ω) for 1% tol. ±(1.0%+0.05 Ω) for 5% tol. No visible damage														
Insulation Resistance	IEC 60115-1 4.6	Rated continuous overload voltage (RCOV) for 1 minute <table><tr><td>Type</td><td>RC1206</td></tr><tr><td>Voltage (DC)</td><td>100 V</td></tr></table>	Type	RC1206	Voltage (DC)	100 V	≥10 GΩ										
Type	RC1206																
Voltage (DC)	100 V																
Dielectric Withstand Voltage	IEC 60115-1 4.7	Maximum voltage (V <sub>rms</sub> ) applied for 1 minute <table><tr><td>Type</td><td>RC1206</td></tr><tr><td>Voltage (AC)</td><td>500 V<sub>rms</sub></td></tr></table>	Type	RC1206	Voltage (AC)	500 V <sub>rms</sub>	No breakdown or flashover										
Type	RC1206																
Voltage (AC)	500 V <sub>rms</sub>																
Resistance to Solvent	IPC/JEDEC J-STD-020D	Isopropylalcohol (C <sub>3</sub> H <sub>7</sub> OH) followed by brushing	No smeared														
Noise	IEC 60115-1 4.12	Maximum voltage (V <sub>rms</sub> ) applied	<table><tr><th>Resistors range</th><th>Value</th></tr><tr><td>R &lt; 100 Ω</td><td>10 dB</td></tr><tr><td>100 Ω ≤ R &lt; 1 KΩ</td><td>20 dB</td></tr><tr><td>1 KΩ ≤ R &lt; 10 KΩ</td><td>30 dB</td></tr><tr><td>10 KΩ ≤ R &lt; 100 KΩ</td><td>40 dB</td></tr><tr><td>100 KΩ ≤ R &lt; 1 MΩ</td><td>46 dB</td></tr><tr><td>1 MΩ ≤ R ≤ 22 MΩ</td><td>48 dB</td></tr></table>	Resistors range	Value	R < 100 Ω	10 dB	100 Ω ≤ R < 1 KΩ	20 dB	1 KΩ ≤ R < 10 KΩ	30 dB	10 KΩ ≤ R < 100 KΩ	40 dB	100 KΩ ≤ R < 1 MΩ	46 dB	1 MΩ ≤ R ≤ 22 MΩ	48 dB
Resistors range	Value																
R < 100 Ω	10 dB																
100 Ω ≤ R < 1 KΩ	20 dB																
1 KΩ ≤ R < 10 KΩ	30 dB																
10 KΩ ≤ R < 100 KΩ	40 dB																
100 KΩ ≤ R < 1 MΩ	46 dB																
1 MΩ ≤ R ≤ 22 MΩ	48 dB																
Biased Humidity (steady state)	IEC 60115-1 4.37	Steady state for 1000 hours at 40 °C / 95% R.H. RCWV applied for 1.5 hours on and 0.5 hour off	±(1.0%+0.05 Ω) for 1% tol. ±(2.0%+0.05 Ω) for 5% tol. <100 mΩ for Jumper														

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
Intermittent Overload	IEC 60115-1 4.39	2.5 times of rated voltage or maximum overload voltage whichever is less for 1 second on and 25 seconds off; total 10,000 cycles	$\pm(1.0\%+0.05\ \Omega)$ for 1% tol. $\pm(2.0\%+0.05\ \Omega)$ for 5% tol. <100 m $\Omega$ for Jumper
Solderability - Wetting	IPC/JEDEC J-STD-002B test B	Electrical Test not required Magnification 50X SMD conditions: 1 <sup>st</sup> step: method B, aging 4 hours at 155 °C dry heat 2 <sup>nd</sup> step: leadfree solder bath at 245 $\pm$ 3 °C Dipping time: 3 $\pm$ 0.5 seconds	Well tinned ( $\geq$ 95% covered) No visible damage
- Leaching	IPC/JEDEC J-STD-002B test D	Leadfree solder, 260 °C, 30 seconds immersion time	No visible damage
- Resistance to Soldering Heat	IEC 60068-2-58	Condition B, no pre-heat of samples Leadfree solder, 260 °C, 10 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol	$\pm(0.5\%+0.05\ \Omega)$ for 1% tol. $\pm(1.0\%+0.05\ \Omega)$ for 5% tol. <50 m $\Omega$ for Jumper No visible damage



REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 4	Jul 02, 2009	-	<ul style="list-style-type: none"><li>- Test Items and methods updated</li><li>- Test requirements upgraded</li></ul>
Version 3	Jul 15, 2008	-	<ul style="list-style-type: none"><li>- Change to dual brand datasheet that describe RC1206 with RoHS compliant</li><li>- Description of "Halogen Free Epoxy" added</li><li>- Define global part number</li></ul>
Version 2	Sep 03, 2004	-	<ul style="list-style-type: none"><li>- New datasheet for 1206 thick film 1% and 5% with lead-free terminations</li><li>- Replace the 1206 part of pdf files: RC01_11_21_31_5, RC02_12_22_32_10, and HRC01_5_4</li><li>- Test method and procedure updated</li><li>- PE tape added (paper tape will be replaced by PE tape)</li><li>- High ohmic products combined into standard products.</li></ul>

*“Yageo reserves all the rights for revising the content of this datasheet without further notification, as long as the products itself are unchanged. Any product change will be announced by PCN.”*

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Yageo:

<a href="#"><u>RC1206FR-07105RL</u></a>	<a href="#"><u>RC1206FR-0710K2L</u></a>	<a href="#"><u>RC1206FR-0710ML</u></a>	<a href="#"><u>RC1206FR-0711K5L</u></a>	<a href="#"><u>RC1206FR-0711KL</u></a>
<a href="#"><u>RC1206FR-07121KL</u></a>	<a href="#"><u>RC1206FR-07121RL</u></a>	<a href="#"><u>RC1206FR-07124RL</u></a>	<a href="#"><u>RC1206FR-0712K1L</u></a>	<a href="#"><u>RC1206FR-0712K7L</u></a>
<a href="#"><u>RC1206FR-0712R1L</u></a>	<a href="#"><u>RC1206FR-07130RL</u></a>	<a href="#"><u>RC1206FR-0713K3L</u></a>	<a href="#"><u>RC1206FR-0713K7L</u></a>	<a href="#"><u>RC1206FR-0713KL</u></a>
<a href="#"><u>RC1206FR-07140KL</u></a>	<a href="#"><u>RC1206FR-07140RL</u></a>	<a href="#"><u>RC1206FR-07143KL</u></a>	<a href="#"><u>RC1206FR-07147RL</u></a>	<a href="#"><u>RC1206FR-0714K7L</u></a>
<a href="#"><u>RC1206FR-07150KL</u></a>	<a href="#"><u>RC1206FR-07150RL</u></a>	<a href="#"><u>RC1206FR-07154KL</u></a>	<a href="#"><u>RC1206FR-0715K4L</u></a>	<a href="#"><u>RC1206FR-0715K8L</u></a>
<a href="#"><u>RC1206FR-0715KL</u></a>	<a href="#"><u>RC1206FR-0715RL</u></a>	<a href="#"><u>RC1206FR-07162RL</u></a>	<a href="#"><u>RC1206FR-07165RL</u></a>	<a href="#"><u>RC1206FR-07169KL</u></a>
<a href="#"><u>RC1206FR-07169RL</u></a>	<a href="#"><u>RC1206FR-0716K2L</u></a>	<a href="#"><u>RC1206FR-0716R9L</u></a>	<a href="#"><u>RC1206FR-0717K8L</u></a>	<a href="#"><u>RC1206FR-0717R8L</u></a>
<a href="#"><u>RC1206FR-07182RL</u></a>	<a href="#"><u>RC1206FR-0718K7L</u></a>	<a href="#"><u>RC1206FR-0719K6L</u></a>	<a href="#"><u>RC1206FR-071K21L</u></a>	<a href="#"><u>RC1206FR-071K2L</u></a>
<a href="#"><u>RC1206FR-071K43L</u></a>	<a href="#"><u>RC1206FR-071K4L</u></a>	<a href="#"><u>RC1206FR-071K54L</u></a>	<a href="#"><u>RC1206FR-071K5L</u></a>	<a href="#"><u>RC1206FR-071K62L</u></a>
<a href="#"><u>RC1206FR-071K74L</u></a>	<a href="#"><u>RC1206FR-071K78L</u></a>	<a href="#"><u>RC1206FR-071M21L</u></a>	<a href="#"><u>RC1206FR-071M62L</u></a>	<a href="#"><u>RC1206FR-071ML</u></a>
<a href="#"><u>RC1206FR-071R33L</u></a>	<a href="#"><u>RC1206FR-071R37L</u></a>	<a href="#"><u>RC1206FR-071RL</u></a>	<a href="#"><u>RC1206FR-07200KL</u></a>	<a href="#"><u>RC1206FR-07200RL</u></a>
<a href="#"><u>RC1206FR-07205KL</u></a>	<a href="#"><u>RC1206FR-07205RL</u></a>	<a href="#"><u>RC1206FR-0720K5L</u></a>	<a href="#"><u>RC1206FR-0720KL</u></a>	<a href="#"><u>RC1206FR-0720R5L</u></a>
<a href="#"><u>RC1206FR-0720RL</u></a>	<a href="#"><u>RC1206FR-07215KL</u></a>	<a href="#"><u>RC1206FR-0721KL</u></a>	<a href="#"><u>RC1206FR-0721R5L</u></a>	<a href="#"><u>RC1206FR-07220RL</u></a>
<a href="#"><u>RC1206FR-07221KL</u></a>	<a href="#"><u>RC1206FR-07221RL</u></a>	<a href="#"><u>RC1206FR-07226RL</u></a>	<a href="#"><u>RC1206FR-0722K1L</u></a>	<a href="#"><u>RC1206FR-0722K6L</u></a>
<a href="#"><u>RC1206FR-0722KL</u></a>	<a href="#"><u>RC1206FR-0722R1L</u></a>	<a href="#"><u>RC1206FR-0722RL</u></a>	<a href="#"><u>RC1206FR-07237KL</u></a>	<a href="#"><u>RC1206FR-07237RL</u></a>
<a href="#"><u>RC1206FR-0723K7L</u></a>	<a href="#"><u>RC1206FR-07243RL</u></a>	<a href="#"><u>RC1206FR-07249KL</u></a>	<a href="#"><u>RC1206FR-07249RL</u></a>	<a href="#"><u>RC1206FR-0724K3L</u></a>
<a href="#"><u>RC1206FR-0724R3L</u></a>	<a href="#"><u>RC1206FR-0724R9L</u></a>	<a href="#"><u>RC1206FR-07255KL</u></a>	<a href="#"><u>RC1206FR-0725K5L</u></a>	<a href="#"><u>RC1206FR-07261KL</u></a>
<a href="#"><u>RC1206FR-07261RL</u></a>	<a href="#"><u>RC1206FR-07267KL</u></a>	<a href="#"><u>RC1206FR-0726K1L</u></a>	<a href="#"><u>RC1206FR-0726K7L</u></a>	<a href="#"><u>RC1206FR-0726R1L</u></a>
<a href="#"><u>RC1206FR-0726R7L</u></a>	<a href="#"><u>RC1206FR-07274KL</u></a>	<a href="#"><u>RC1206FR-0727K4L</u></a>	<a href="#"><u>RC1206FR-0727R4L</u></a>	<a href="#"><u>RC1206FR-0727RL</u></a>
<a href="#"><u>RC1206FR-07287KL</u></a>	<a href="#"><u>RC1206FR-07294KL</u></a>	<a href="#"><u>RC1206FR-072K05L</u></a>	<a href="#"><u>RC1206FR-072K15L</u></a>	<a href="#"><u>RC1206FR-072K1L</u></a>



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.