

DATA SHEET

THIN FILM CHIP RESISTORS

High precision - high stability

RT series

0.05% TO 1%, TCR 5 TO 50

sizes 0201/0402/0603/0805/1206/

1210/2010/2512

RoHS compliant



YAGEO
Phycomp

Product specification – August 22, 2014 V.5



SCOPE

This specification describes RT series high precision - high stability chip resistors with lead-free terminations made by thin film process.

APPLICATIONS

- Converters
- Printer equipment
- Server board
- Telecom
- Consumer

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 & I2NC

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)**

RT XXXX F X X XX XXXX L
 (1) (2) (3) (4) (5) (6) (7)

(1) SIZE

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512

(2) TOLERANCE

W = $\pm 0.05\%$

B = $\pm 0.1\%$

C = $\pm 0.25\%$

D = $\pm 0.5\%$

F = $\pm 1\%$

(3) PACKAGING TYPE

R = Paper/PE taping reel

K = Embossed taping reel

(4) TEMPERATURE COEFFICIENT OF RESISTANCE

A = 5 ppm/ $^{\circ}$ C

B = 10 ppm/ $^{\circ}$ C

C = 15 ppm/ $^{\circ}$ C

D = 25 ppm/ $^{\circ}$ C

E = 50 ppm/ $^{\circ}$ C

(5) TAPING REEL

07 = 7 inch dia. Reel

13 = 13 inch dia. Reel

(6) RESISTANCE VALUE

There are 2~4 digits indicated the resistor value. Letter R/K/M is decimal point.

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

(7) DEFAULT CODE

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

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

ORDERING EXAMPLE

The ordering code of a RT0603 chip resistor, TC 50 value 56 Ω with $\pm 0.5\%$ tolerance, supplied in 7-inch tape reel is: RT0603DRE0756RL.

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. For matching traditional types with size codes, please refer to "Comparison table of traditional types and sizes".

GLOBAL PART NUMBER (PREFERRED)

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

I2NC CODE

2390 (1)	X (2)	XX (3)	X (4)	XXXX (5)	L (6)
START WITH ⁽¹⁾	TCR ⁽²⁾ (ppm/°C)	PACKING CODE BY SIZE (inch) ⁽³⁾	TOL. ⁽⁴⁾ (%)	RESISTANCE RANGE	DEFAULT CODE (NOTE)
2390	8 = ±10 7 = ±15 6 = ±25 4 = ±50	0402: 07 = 7" reel 47 = 13" reel 0603: 04 = 7" reel 24 = 10" reel 44 = 13" reel 0805: 01 = 7" reel 41 = 13" reel 1206: 11 = 7" reel 51 = 13" reel 1210: 12 = 7" reel 52 = 13" reel 2010: 15 = 7" reel 2512: 18 = 7" reel	7 = ±1 6 = ±0.5 5 = ±0.25 4 = ±0.1 3 = ±0.05	The remaining 4 digits represent the resistance value with the last digit indicating the multiplier as shown in the table of "Last digit of I2NC". 0402: 10Ω ≤ R < 241KΩ 0603: 5.1 Ω ≤ R ≤ 1MΩ 0805: 5.1Ω ≤ R ≤ 1.5MΩ 1206: 5.1Ω ≤ R ≤ 1.5MΩ 1210: 5.1Ω ≤ R ≤ 1MΩ 2010: 10Ω ≤ R ≤ 1MΩ 2512: 10Ω ≤ R ≤ 1MΩ	Letter L is system default code for order only (Note)

Comparison table of traditional types and sizes

TF (1)	X (2)	X (3)	X (4)
START WITH	SIZE CODE	TCR (ppm/°C)	TOL. (%)
TF	3 = 0402 2 = 0603 1 = 0805 0 = 1206 5 = 1210 7 = 2010 6 = 2512	4 = ±10 3 = ±15 1 = ±25 2 = ±50	0 = ±1 1 = ±0.5 2 = ±0.25 3 = ±0.1 4 = ±0.05

Example:

TF321 = RT0402, TC50, ±0.5% tolerance

Resistance decade ⁽³⁾	Last digit
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:	1 Ω	=	1008 or 108
	33 kΩ	=	3303 or 333
	10 MΩ	=	1006 or 106

Exceptions to above packing code definitions:

0805 TC50 with 1%, supplied in 13" reel, the packing code is 02.

0603 TC50 with 1%, supplied in 13" reel, the packing code is 03.

2512 TC15, in 7" reel, the packing code is 35.

2010 TC15, in 7" reel, the packing code is 31.

ORDERING EXAMPLE

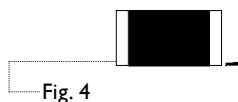
The ordering code of a TF221 resistor, TC50, value 56 Ω, with ±0.5% tolerance, supplied in tape of 5,000 units per reel is: 239040465609L or RT0603DRE0756RL.

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

MARKING

RT0201 / RT0402 / RESISTANCE VALUE IS NOT IN E-24 / E96 SERIES



No marking

RT0603



E-24 series: exception values 10/11/13/15/20/75 of E-24 series, one short bar under marking letter



E-96 series: including values 10/11/13/15/20/75 of E-24 series, 3 digits

RT0805 / RT1206 / RT1210 / RT2010 / RT2512



Either resistance in E-24 or E-96: 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 resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive layer. The resistive layer is adjusted to give the approximate required resistance and laser cutting of this resistive layer that achieves tolerance trims the value. The resistive layer is covered with a protective coat and printed with the resistance value. Finally, the two external terminations (matte tin) are added. See fig. 5.

DIMENSION

Table I For outlines see fig. 5

TYPE	L (mm)	W (mm)	H (mm)	l ₁ (mm)	l ₂ (mm)
RT0201	0.60 ±0.03	0.30 ±0.03	0.23 ±0.03	0.10 ±0.05	0.15 ±0.05
RT0402	1.00 ±0.10	0.50 ±0.05	0.30 ±0.05	0.20 ±0.10	0.25 ±0.10
RT0603	1.60 ±0.10	0.80 ±0.10	0.45 ±0.10	0.25 ±0.15	0.25 ±0.15
RT0805	2.00 ±0.10	1.25 ±0.10	0.50 ±0.10	0.35 ±0.20	0.35 ±0.20
RT1206	3.10 ±0.10	1.60 ±0.10	0.55 ±0.10	0.45 ±0.20	0.40 ±0.20
RT1210	3.10 ±0.10	2.60 ±0.15	0.55 ±0.10	0.50 ±0.20	0.50 ±0.20
RT2010	5.00 ±0.10	2.50 ±0.15	0.55 ±0.10	0.60 ±0.20	0.50 ±0.20
RT2512	6.35 ±0.10	3.20 ±0.15	0.55 ±0.10	0.60 ±0.20	0.50 ±0.20

OUTLINES

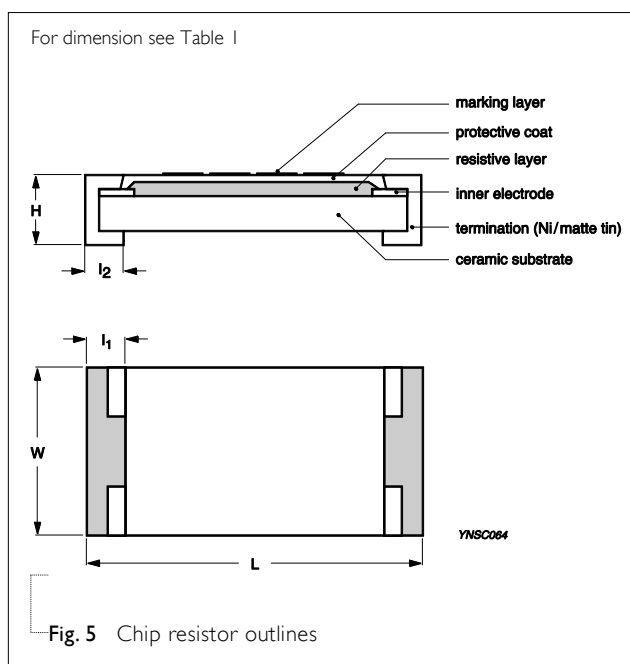


Fig. 5 Chip resistor outlines

ELECTRICAL CHARACTERISTICS

Table 2

TYPE	Operating Temperature Range	Power Rating	Max. Work Vol. (1)	Max. Overload Vol.	Dielectric Withstand Vol.	T.C.R. (ppm/°C)	Resistance Range (E-24/E-96 series) ⁽²⁾ & Tolerance				
							±0.05%	±0.1%	±0.25%	±0.5%	±1.0%
RT0201	-55 °C to +125 °C	1/20W	25V	50V	50V	±50	---	22Ω~5K	22Ω~5K	22Ω~5K	22Ω~5K
						±25	---	22Ω~5K	22Ω~5K	22Ω~5K	22Ω~5K
						±15	---	---	---	---	---
						±10	---	---	---	---	---
						±5	---	---	---	---	---
RT0402		1/16W	50V	100V	75V	±50	20~12K	4.7~240K	4.7~240K	4.7~240K	4.7~240K
						±25	20~12K	4.7~240K	4.7~240K	4.7~240K	---
						±15	20~12K	20~70k	20~70k	---	---
						±10	20~12K	20~70k	20~70k	---	---
						±5	20~10K	20~10K	20~10K	---	---
RT0603		1/10W	75V	150V	100V	±50	5.1~100K	1~1M	1~1M	1~1M	1~1M
						±25	5.1~100K	1~1M	1~1M	1~1M	---
						±15	5.1~100K	5.1~332k	5.1~332k	---	---
						±10	5.1~100K	5.1~332k	5.1~332k	---	---
						±5	20~30K	20~30K	20~30K	---	---
RT0805	-55 °C to +155 °C	1/8W	150V	300V	200V	±50	5.1~200K	1~1.5M	1~1.5M	1~1.5M	1~1.5M
						±25	5.1~200K	1~1.5M	1~1.5M	1~1.5M	---
						±15	5.1~200K	5.1~800k	5.1~800k	---	---
						±10	5.1~200K	5.1~800k	5.1~800k	---	---
						±5	20~50K	20~50K	20~50K	---	---
RT1206		1/4W	200V	400V	300V	±50	5.1~500K	1~1.5M	1~1.5M	1~1.5M	1~1.5M
						±25	5.1~500K	1~1.5M	1~1.5M	1~1.5M	---
						±15	5.1~500K	5.1~1M	5.1~1M	---	---
						±10	5.1~500K	5.1~1M	5.1~1M	---	---
						±5	20~100K	20~100K	20~100K	---	---
RT1210		1/4W	200V	400V	400V	±50	5.1~1M	5.1~1M	5.1~1M	5.1~1M	5.1~1M
						±25	5.1~1M	5.1~1M	5.1~1M	5.1~1M	---
						±15	100~100k	10~100k	10~100k	---	---
						±10	100~100k	10~100k	10~100k	---	---
						±5	---	---	---	---	---
RT2010	-55 °C to +125 °C	1/2W	200V	400V	400V	±50	10~1M	10~1M	10~1M	10~1M	10~1M
						±25	10~1M	10~1M	10~1M	10~1M	---
						±15	100~100k	10~100k	10~100k	---	---
						±10	100~100k	10~100k	10~100k	---	---
						±5	---	---	---	---	---
RT2512		3/4W	200V	400V	400V	±50	10~1M	10~1M	10~1M	10~1M	10~1M
						±25	10~1M	10~1M	10~1M	10~1M	---
						±15	100~100k	10~100k	10~100k	---	---
						±10	100~100k	10~100k	10~100k	---	---
						±5	---	---	---	---	---

NOTE

1. The maximum working voltage that may be continuously applied to the resistor element, see "IEC publication 60115-8"
2. Value of E-192 series is on request



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

PACKING STYLE	REEL DIMENSION	RT0201	RT0402	RT0603	RT0805	RT1206	RT1210	RT2010	RT2512
Paper/PE taping reel (R)	7" (178 mm)	10,000	10,000	5,000	5,000	5,000	5,000	---	---
	13" (330 mm)	50,000	50,000	20,000	20,000	20,000	20,000	---	---
Embossed taping reel (K)	7" (178 mm)	---	---	---	---	---	---	4,000	4,000

NOTE

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

FUNCTIONAL DESCRIPTION**POWER RATING**

Each type rated power at 70°C:

RT0201=1/20W, RT0402=1/16W, RT0603=1/10W,
RT0805=1/8W, RT1206=1/4W, RT1210=1/4W,
RT2010=1/2W, RT2512=3/4W.

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)

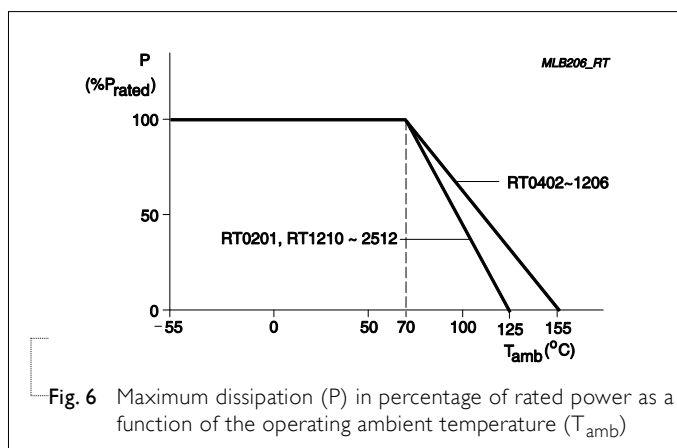


Fig. 6 Maximum dissipation (P) in percentage of rated power as a function of the operating ambient temperature (T_{amb})

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 Formula: $\text{T.C.R.} = \frac{R_2 - R_1}{R_1 (t_2 - t_1)} \times 10^6 \text{ (ppm/°C)}$ Where t ₁ = +25 °C or specified room temperature t ₂ = -55 °C or +125 °C test temperature R ₁ = resistance at reference temperature in ohms R ₂ = 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	±(0.5%+0.05 Ω)
High Temperature Exposure/Endurance at Upper Category Temperature	IEC 60068-2-2	1000 hours at maximum operating temperature depending on specification, unpowered	±(0.5%+0.05 Ω)
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)
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 10 KΩ to 10 MΩ ±(0.5%+0.05 Ω) for others
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	±(0.5%+0.05 Ω)

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
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	$\pm(0.5\%+0.05 \Omega)$ No visible damage
Board Flex/ Bending	IEC 60068-2-21	Chips mounted on a 90mm glass epoxy resin PCB (FR4) Bending: see table 6 for each size Bending time: 60 $\pm$ 5 seconds	$\pm(0.25\%+0.05 \Omega)$ 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 $\pm$ 3 °C This constitutes shall be repeated for 96 hours However the applied voltage shall not exceed the maximum operating voltage	$\pm(0.5\%+0.05 \Omega)$ No visible damage
Insulation Resistance	IEC 60115-1 4.6	Rated continuous overload voltage (RCOV) for 1 minute Details see below table 5	$\geq 10 \text{ G}\Omega$
Dielectric Withstand Voltage	IEC 60115-1 4.7	Maximum voltage (V_{rms}) applied for 1 minute Details see below table 5	No breakdown or flashover
Solderability - Wetting	IPC/JEDEC J-STD-002B test B	Electrical Test not required Magnification 50X SMD conditions: 1 st step: method B, aging 4 hours at 155°C dry heat 2 nd 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	$\pm(0.5\%+0.05 \Omega)$ No visible damage

Table 5 Criteria of rated continued working voltage and overload voltage

TYPE	RT0201	RT0402	RT0603	RT0805	RT1206	RT1210	RT2010	RT2512
Voltage (DC/unit: V); (AC/ unit: V _{rms})	50	100	100	300	500	500	500	500

Table 6 Bending for sizes 0201 to 2512

TYPE	RT0201	RT0402	RT0603	RT0805	RT1206	RT1210	RT2010	RT2512
Specification (mm)	5	5	3	3	2	2	2	2

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 5	Aug. 22, 2014	-	-Add RT0201 - RT0402/0603/0805/1206: resistance range and operating temperature range updated - Fig. 6 updated
Version 4	Oct 21, 2009	-	- Test Items and methods updated - Test requirements upgraded
Version 3	Jul 11, 2008	-	- Change to dual brand datasheet that describe RT0402 to RT2512 with RoHS compliant - Description of "Halogen Free Epoxy" added - Define global part number - Modify electrical characteristic
Version 2	Dec 26, 2005	-	- New datasheet for thin film high precision - high stability chip resistors sizes of 0201/0402/0603/0805/1206/1210/2010/2512, 1%, 0.5%, 0.25%, 0.1%, 0.05%, TC25/50 with lead-free terminations - Replace the 0402 to 1210 parts of pdf files: TFX10_1_1, TFX11_5_2, TFX12_25_2, TFX13_1_3, TFX14_05_1, TFX20_1_2, TFX21_5_2, TFX22_25_2, TFX23_1_2, TFX24_05_1, and combine into a document. - Test method and procedure updated - PE tape added (paper tape will be replaced by PE tape)

"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:

[RT0603BRD0710KL](#) [RT0603BRD0712K4L](#) [RT0603BRD072K67L](#) [RT0603BRD0749R9L](#) [RT0603FRE0710K2L](#)
[RT0603FRE071K78L](#) [RT0603FRE072K7L](#) [RT0603FRE0733KL](#) [RT0603FRE07348RL](#) [RT0603FRE075K49L](#)
[RT0603FRE076K2L](#) [RT0805BRD0722K6L](#) [RT0805BRD0724K9L](#) [RT0805BRD072K67L](#) [RT1206BRD07100KL](#)
[RT1206BRD07100RL](#) [RT1206BRD0710K5L](#) [RT1206BRD0710KL](#) [RT1206BRD0712KL](#) [RT1206BRD0715KL](#)
[RT1206BRD07187KL](#) [RT1206BRD0719K1L](#) [RT1206BRD0720KL](#) [RT1206BRD0723K2L](#) [RT1206BRD0726K1L](#)
[RT1206BRD072KL](#) [RT1206BRD07301RL](#) [RT1206BRD0730K1L](#) [RT1206BRD0731K6L](#) [RT1206BRD07357KL](#)
[RT1206BRD073K01L](#) [RT1206BRD073K74L](#) [RT1206BRD07402RL](#) [RT1206BRD07442RL](#) [RT1206BRD0744K2L](#)
[RT1206BRD07475KL](#) [RT1206BRD0749K9L](#) [RT1206BRD0749R9L](#) [RT1206BRD074K99L](#) [RT1206BRD0756K2L](#)
[RT1206BRD076K65L](#) [RT1206BRD0775KL](#) [RT1206BRD0784K5L](#) [RT1210BRD07120RL](#) [RT0402BRD07100KL](#)
[RT0402FRE0712K1L](#) [RT0603FRE0711KL](#) [RT0603FRE07150KL](#) [RT0603FRE0719K1L](#) [RT0603FRE072K21L](#)
[RT0603FRE0768KL](#) [RT0603FRE078R25L](#) [RT0805BRD071K4L](#) [RT0805BRD072K74L](#) [RT0805BRD072K8L](#)
[RT0805BRD0720KL](#) [RT0805BRD0722K1L](#) [RT0805BRD07402RL](#) [RT0805BRD0793R1L](#) [RT0402DRE078K87L](#)
[RT0603BRD0710K5L](#) [RT0603FRE073K92L](#) [RT0603FRE0717K4L](#) [RT0603DRE071KL](#) [RT0603DRE07100KL](#)
[RT0603DRE07121RL](#) [RT0603BRD07267KL](#) [RT0603BRD07118KL](#) [RT0603BRD07196KL](#) [RT0603BRD0764K9L](#)
[RT0805BRD071K1L](#) [RT0805BRD0712K1L](#) [RT0805BRD07121KL](#) [RT0805BRD0713KL](#) [RT0805BRD07154KL](#)
[RT0805BRD07178KL](#) [RT0805BRD0727KL](#) [RT0805BRD07287KL](#) [RT0805BRD0747KL](#) [RT0805BRD0788K7L](#)
[RT0805BRD079K09L](#) [RT0805BRD076K34L](#) [RT0805BRD0795K3L](#) [RT0603BRD0724KL](#) [RT0603FRE0712KL](#)
[RT0805BRD07681KL](#) [RT0603BRD071K07L](#) [RT0603BRD071K65L](#) [RT0603BRD071K87L](#) [RT0603BRD075K49L](#)
[RT0603BRD071K4L](#) [RT0603BRD071K37L](#) [RT0603FRE076K49L](#) [RT0805BRD071ML](#) [RT0402BRD071KL](#)
[RT0402BRD071K5L](#) [RT0603BRD0712K7L](#) [RT0603BRD0714K7L](#) [RT1206BRD0717K4L](#) [RT0402BRD0747K5L](#)



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

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