



# Isolator

SMD

# CU4S0506 Series

5x5mm\*

\* Dimensions Code JIS

## Caution

**该产品目录中的产品将停产或已停产**

停产发布日期	Dec.22, 2023
最后订单日期	Sep.30, 2024
最后出货日期	Dec.31, 2024

关于替换产品信息，请参考本公司 Web 网站。

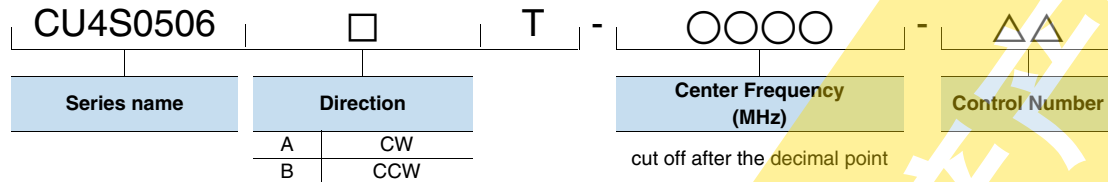
# Isolator

## SMD

Product compatible with RoHS directive

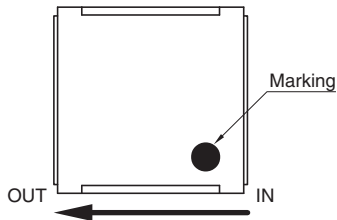
# Overview of CU4S0506 Series

## PART NUMBER CONSTRUCTION

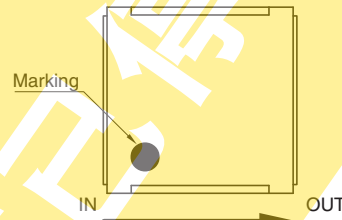


## DIRECTION OF CIRCULATION

ClockWise(CW): A



CounterClockWise(CCW): B



## TEMPERATURE RANGE

Operating temperature (°C)	Storage temperature (°C)
-35 to +85	-40 to +85

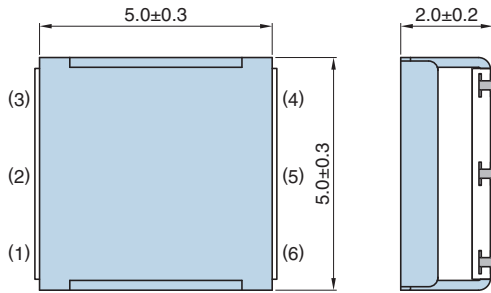
RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://product.tdk.com/en/environment/rohs/>

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- Before using these products, be sure to request the delivery specifications.

# CU4S0506 Series (Under 1GHz)

## SHAPES AND DIMENSIONS

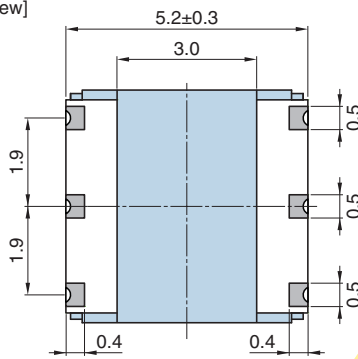
[Top view]



■ Terminal (Au plating)  
 ■ Metal parts other than a terminal. (GND electric potential)

Tolerance unless otherwise specified:  $\pm 0.2$   
 Coplanarity : 0.1max.

[Bottom view]



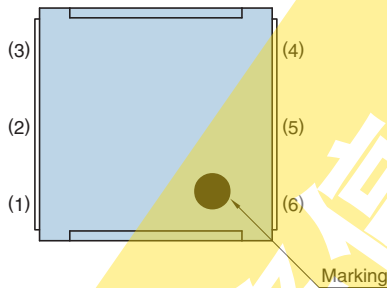
Terminal functions

1	OUT	IN
2	GROUND	GROUND
3	GROUND	GROUND
4	GROUND	GROUND
5	GROUND	GROUND
6	IN	OUT
Rotation	Clockwise	Counter Clockwise

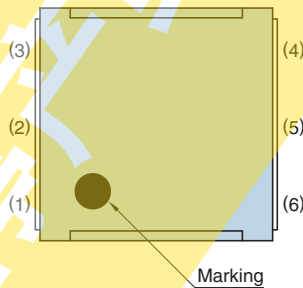
Dimensions in mm

[Marking]

ClockWise(CW): A



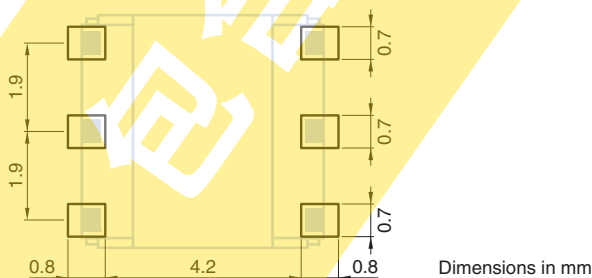
CounterClockWise(CCW): B



Marking

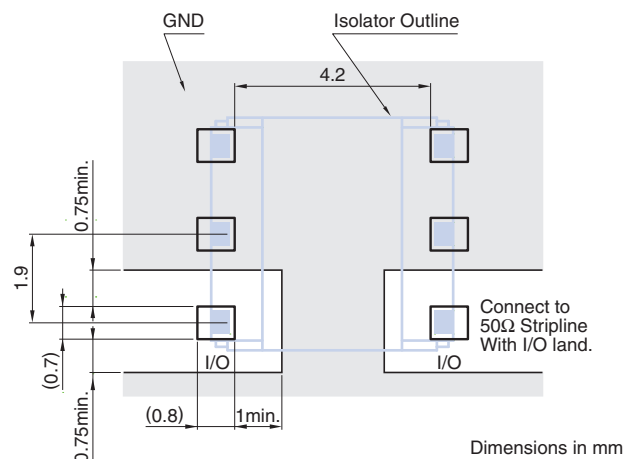
Marking

## RECOMMENDED LAND PATTERN



Dimensions in mm

## RECOMMENDED PC BOARD PATTERN



Dimensions in mm

- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

# CU4S0506 Series (Under 1GHz)

## ELECTRICAL CHARACTERISTICS

Frequency range (MHz)	Center frequency (MHz)	Isolation (dB) min.	Insertion loss (dB) max.	V.S.W.R. Zo=50Ω max.	Handling power (W) max.	Reflection power (W) <sup>*4</sup> max.	Part Number	
							ClockWise	CounterClockWise
699 to 716	707.5	13	0.90	1.6	5	2	CU4S0506AT-707-00	CU4S0506BT-707-00
704 to 716	710	14	0.90	1.6	5	2	CU4S0506AT-710-00	CU4S0506BT-710-00
716 to 728	722	14	0.90	1.6	5	2	CU4S0506AT-722-00	CU4S0506BT-722-00
718 to 748	733	12	0.90	1.7	5	2	CU4S0506AT-733-00	CU4S0506BT-733-00
729 to 746	737.5	13	0.80	1.6	5	2	CU4S0506AT-737-00	CU4S0506BT-737-00
734 to 746	740	14	0.80	1.5	5	2	CU4S0506AT-740-00	CU4S0506BT-740-00
746 to 756	751	15	0.80	1.5	5	2	CU4S0506AT-751-00	CU4S0506BT-751-00
758 to 768	763	15	0.80	1.5	5	2	CU4S0506AT-763-00	CU4S0506BT-763-00
777 to 787	782	15	0.80	1.5	5	2	CU4S0506AT-782-00	CU4S0506BT-782-00
773 to 803	788	12	0.90	1.7	5	2	CU4S0506AT-788-00	CU4S0506BT-788-00
788 to 798	793	15	0.80	1.5	5	2	CU4S0506AT-793-00	CU4S0506BT-793-00
791 to 821	806	12	0.85	1.7	5	2	CU4S0506AT-806-00	CU4S0506BT-806-00
807 to 824	815.5	14	0.75	1.6	5	2	CU4S0506AT-815-00	CU4S0506BT-815-00
815 to 830	822.5	14	0.75	1.6	5	2	CU4S0506AT-822-00	CU4S0506BT-822-00
815 to 845	830	13	0.80	1.6	5	2	CU4S0506AT-830-00	CU4S0506BT-830-00
814 to 849	831.5	12	0.90	1.7	5	2	CU4S0506AT-831-00	CU4S0506BT-831-00
824 to 849	836.5	13	0.80	1.6	5	2	CU4S0506AT-836-00	CU4S0506BT-836-00
830 to 845	837.5	14	0.75	1.6	5	2	CU4S0506AT-837-00	CU4S0506BT-837-00
832 to 862	847	13	0.80	1.6	5	2	CU4S0506AT-847-00	CU4S0506BT-847-00
852 to 869	860.5	14	0.75	1.6	5	2	CU4S0506AT-860-00	CU4S0506BT-860-00
860 to 875	867.5	14	0.75	1.6	5	2	CU4S0506AT-867-00	CU4S0506BT-867-00
860 to 890	875	13	0.75	1.6	5	2	CU4S0506AT-875-00	CU4S0506BT-875-00
875 to 890	882.5	14	0.75	1.6	5	2	CU4S0506AT-882-00	CU4S0506BT-882-00
900 to 915	907.5	14	0.70	1.5	5	2	CU4S0506AT-907-00	CU4S0506BT-907-00
945 to 960	952.5	14	0.70	1.5	5	2	CU4S0506AT-952-00	CU4S0506BT-952-00

Characteristic Impedance ( $\Omega$ ) : 50(Nominal)

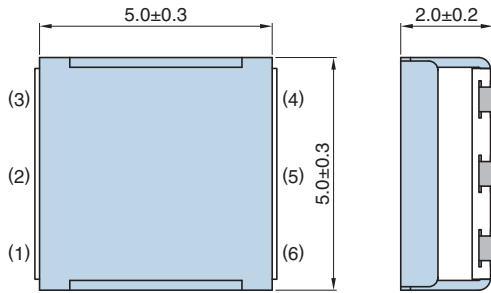
<sup>\*4</sup> To be kept below +85deg.C at the bottom surface

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- Before using these products, be sure to request the delivery specifications.

# CU4S0506 Series (Over 1GHz)

## SHAPES AND DIMENSIONS

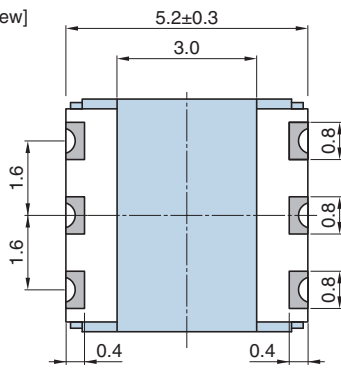
[Top view]



■ Terminal (Au plating)  
 ■ Metal parts other than a terminal. (GND electric potential)

Tolerance unless otherwise specified:  $\pm 0.2$   
 Coplanarity : 0.1max.

[Bottom view]



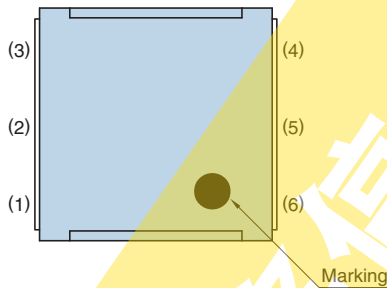
Terminal functions

1	OUT	IN
2	GROUND	GROUND
3	GROUND	GROUND
4	GROUND	GROUND
5	GROUND	GROUND
6	IN	OUT
Rotation	Clockwise	Counter Clockwise

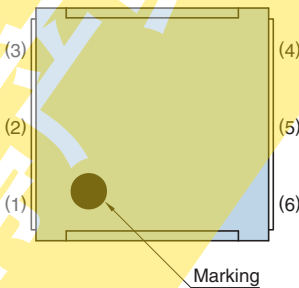
Dimensions in mm

[Marking]

ClockWise(CW): A



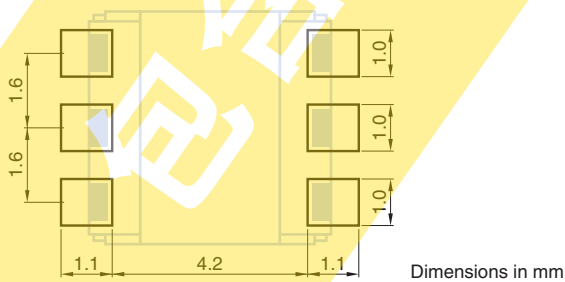
CounterClockWise(CCW): B



Marking

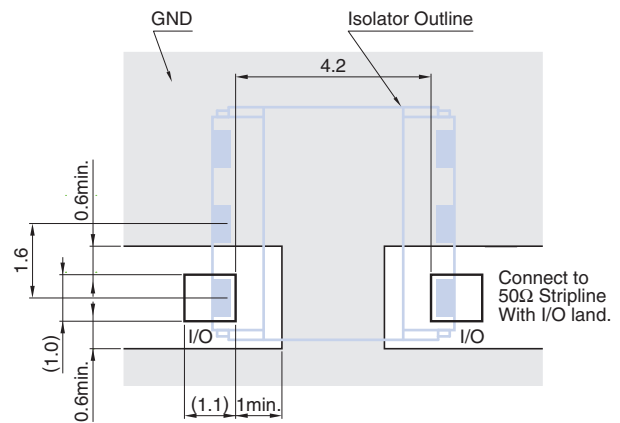
Marking

## RECOMMENDED LAND PATTERN



Dimensions in mm

## RECOMMENDED PC BOARD PATTERN



Dimensions in mm

- All specifications are subject to change without notice.
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# CU4S0506 Series (Over 1GHz)

## ELECTRICAL CHARACTERISTICS

Frequency range (MHz)	Center frequency (MHz)	Isolation (dB) min.	Insertion loss (dB) max.	V.S.W.R. Zo=50Ω max.	Handling power (W) max.	Reflection power (W) <sup>*4</sup> max.	Part Number	
							ClockWise	CounterClockWise
1427.9 to 1462.9	1445.4	15	0.60	1.5	5	2	CU4S0506AT-1445-00	CU4S0506BT-1445-00
1475.9 to 1510.9	1493.4	15	0.60	1.5	5	2	CU4S0506AT-1493-00	CU4S0506BT-1493-00
1525 to 1559	1542	15	0.60	1.5	5	2	CU4S0506AT-1542-00	CU4S0506BT-1542-00
1626.5 to 1660.5	1643.5	15	0.60	1.5	5	2	CU4S0506AT-1643-00	CU4S0506BT-1643-00
1710 to 1785	1747.5	13	0.80	1.6	5	2	CU4S0506AT-1747-00	CU4S0506BT-1747-00
1749.9 to 1784.9	1767.4	15	0.60	1.5	5	2	CU4S0506AT-1767-00	CU4S0506BT-1767-00
1844.9 to 1879.9	1862.4	15	0.60	1.5	5	2	CU4S0506AT-1862-00	CU4S0506BT-1862-00
1850 to 1910	1880	15	0.60	1.5	5	2	CU4S0506AT-1880-00	CU4S0506BT-1880-00
1850 to 1915	1882.5	14	0.70	1.5	5	2	CU4S0506AT-1882-00	CU4S0506BT-1882-00
1880 to 1920	1900	15	0.60	1.5	5	2	CU4S0506AT-1900-00	CU4S0506BT-1900-00
1920 to 1980	1950	15	0.60	1.5	5	2	CU4S0506AT-1950-00	CU4S0506BT-1950-00
1930 to 1990	1960	15	0.60	1.5	5	2	CU4S0506AT-1960-00	CU4S0506BT-1960-00
2010 to 2025	2017.5	15	0.60	1.5	5	2	CU4S0506AT-2017-00	CU4S0506BT-2017-00
2110 to 2170	2140	15	0.60	1.5	5	2	CU4S0506AT-2140-00	CU4S0506BT-2140-00
2305 to 2315	2310	15	0.60	1.5	5	2	CU4S0506AT-2310-00	CU4S0506BT-2310-00
2350 to 2360	2355	15	0.60	1.5	5	2	CU4S0506AT-2355-00	CU4S0506BT-2355-00
2500 to 2570	2535	15	0.60	1.6	5	2	CU4S0506AT-2535-00	CU4S0506BT-2535-00
3400 to 3600	3500	10	1.00	1.8	5	1	CU4S0506AT-3500-00	CU4S0506BT-3500-00
3480 to 3600	3540	10	1.00	1.8	5	1	CU4S0506AT-3540-00	CU4S0506BT-3540-00

Characteristic Impedance (Ω) : 50(Nominal)

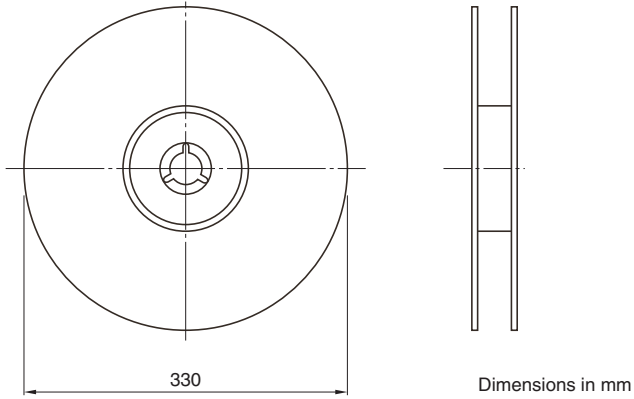
\*4 To be kept below +85deg.C at the bottom surface

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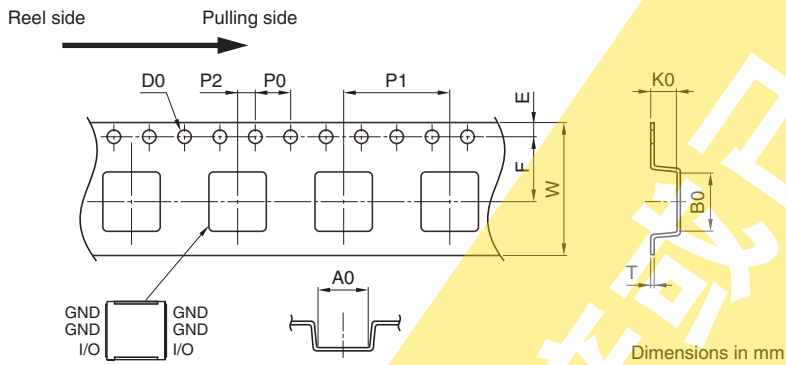
## CU4S0506 Series

### PACKAGING STYLE

#### REEL DIMENSIONS



#### TAPE DIMENSIONS



A0	B0	D0	E	F	P0	P1	P2	W	K0	T
5.6±0.1	5.6±0.1	1.5+0.1/-0	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.1	16.0+0.3/-0.1	2.6±0.1	0.3±0.05

### PACKAGE QUANTITY

Standard package quantity

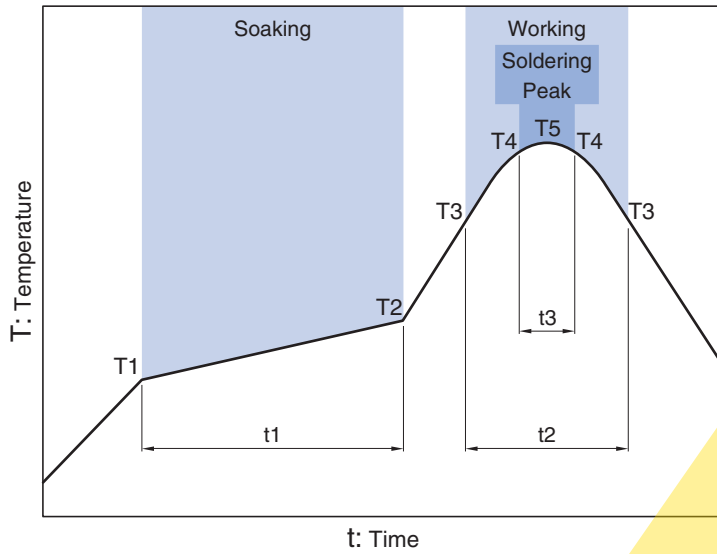
(pieces/reel)

1000

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## CU4S0506 Series

## RECOMMENDED REFLOW PROFILE



Soaking			Working		Soldering Peak		
Temp.	T2	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120s	230°C	30 to 60s	250°C	within 10s	260°C max.

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## 使用注意事项

在使用本产品前，请务必随附采购规格书。

## 安全注意事项

使用本产品时，请注意安全事项。

### ⚠ 注意

建议磁铁与制品保持50cm以上距离，有可能影响制品静特性；若磁铁必须靠近制品时，禁止在制品上加5mT以上磁力。建议磁性材料与制品保持10mm以上距离，有可能影响制品静特性（若在10mm以内静特性会产生可逆变化）。制品本身会产生0.3T以下的漏磁现象。

本产品目录中记载的产品是指在通用标准用途意义上使用于一般电子设备（AV设备，通信设备，家电产品，娱乐设备，计算机设备，个人设备，办公设备，计测设备，工业机器人），并且该一般电子设备要在通常的操作和使用方法下使用。

对于需要高度安全性和可靠性的，或者设备的故障，误动作，运转不良可能会给人的生命，身体及财产等造成损害，以及有可能产生莫大社会影响的以下用途（以下称‘特定用途’）中的适用性，性能发挥，品质，本公司不予保证。

产品被在本产品目录的范围、条件之外，或者在特定用途中使用，本公司对它造成的损害和信赖性不承担任何责任。

- |                         |                    |
|-------------------------|--------------------|
| (1) 航天航空设备              | (8) 公共信息处理设备       |
| (2) 交通运输设备（汽车，电动火车，船舶等） | (9) 军事设备           |
| (3) 医疗设备                | (10) 电加热设备、燃烧设备    |
| (4) 发电控制设备              | (11) 防灾 / 预防犯罪设备   |
| (5) 原子能源相关设备            | (12) 安全设备          |
| (6) 海底设备                | (13) 其他不被视为常规用途的用途 |
| (7) 交通控制设备              |                    |

为了能够更安全地使用产品，对使用本产品目录中所记载产品的设备进行设计时，请确保符合该设备的使用用途及状态的保护回路和装置，并设置备用回路等。