



Isolator

SMD

CU4S0401 Series

4x4mm*

* 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	Aug. 29, 2019
最后订单日期	Sep. 30, 2020
最后出货日期	Dec. 31, 2020

关于替换产品信息，请参考本公司 Web 网站。

Isolator

SMD

Product compatible with RoHS directive

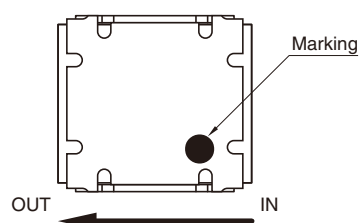
Overview of CU4S0401 Series

PART NUMBER CONSTRUCTION

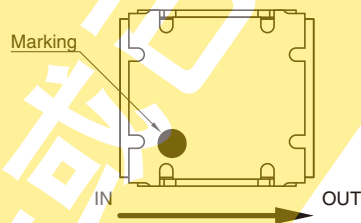
CU4S0401	□	T	-	○○○○	-	△△
Series name	Direction			Center Frequency (MHz)		Control Number
	A CW			cut off after the decimal point		
	B CCW					

DIRECTION OF CIRCULATION

ClockWise(CW): A



CounterClockWise(CCW): B



TEMPERATURE RANGE

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

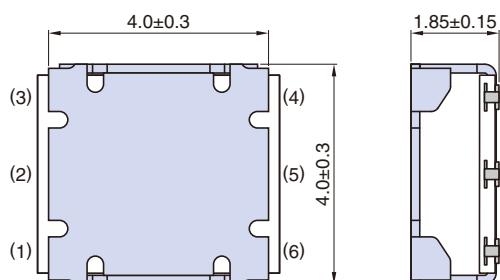
○ RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://product.tdk.com/en/environment/rohs/>

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

CU4S0401 Series

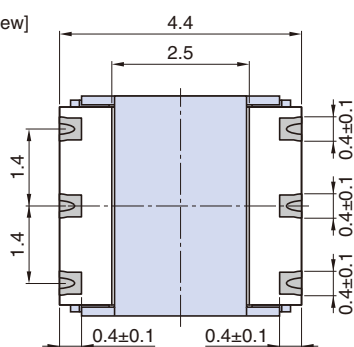
SHAPES AND DIMENSIONS

[Top view]



Terminal (Au plating)
 Metal parts other than a terminal.
 (GND electric potential)
 Tolerance unless otherwise specified: ± 0.2
 Coplanarity : 0.1max.

[Bottom view]



Terminal functions

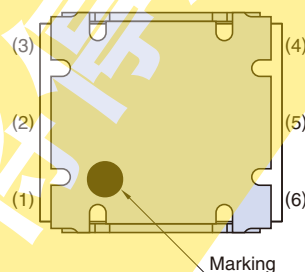
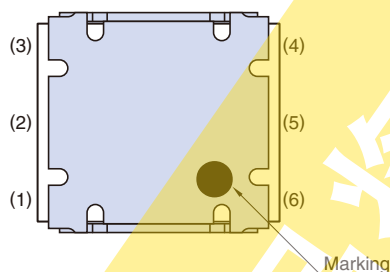
1	OUT	IN
2	GROUND	GROUND
3	GROUND	GROUND
4	GROUND	GROUND
5	GROUND	GROUND
6	IN	OUT
Rotation	Clockwise	Counter Clockwise

Dimensions in mm

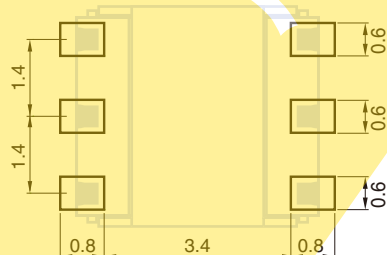
[Marking]

ClockWise(CW): A

CounterClockWise(CCW): B

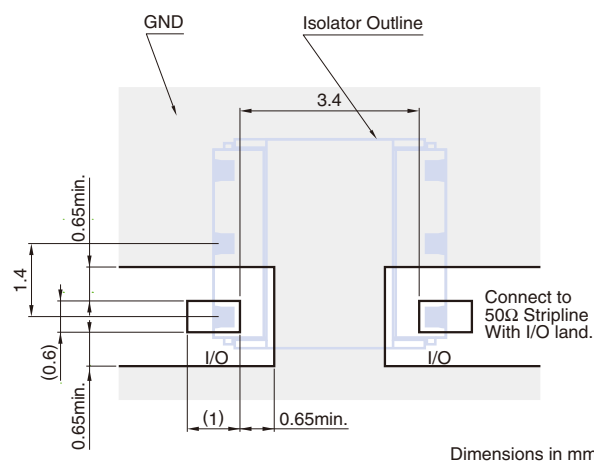


RECOMMENDED LAND PATTERN



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.

CU4S0401 Series

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) ^{*4} max.	Part Number	
							ClockWise	CounterClockWise
699 to 716	707.5	13	1.00	1.60	2.5	0.6	CU4S0401AT-707-00	CU4S0401BT-707-00
704 to 716	710	15	0.90	1.50	2.5	0.6	CU4S0401AT-710-00	CU4S0401BT-710-00
716 to 728	722	15	0.90	1.50	2.5	0.6	CU4S0401AT-722-00	CU4S0401BT-722-00
703 to 748	725.5	12	1.10	1.70	2.5	0.6	CU4S0401AT-725-00	CU4S0401BT-725-00
718 to 748	733	12	1.00	1.70	2.5	0.6	CU4S0401AT-733-00	CU4S0401BT-733-00
729 to 746	737.5	13	1.00	1.60	2.5	0.6	CU4S0401AT-737-00	CU4S0401BT-737-00
734 to 746	740	15	0.90	1.50	2.5	0.6	CU4S0401AT-740-00	CU4S0401BT-740-00
746 to 756	751	15	0.90	1.50	2.5	0.6	CU4S0401AT-751-00	CU4S0401BT-751-00
758 to 768	763	15	0.90	1.50	2.5	0.6	CU4S0401AT-763-00	CU4S0401BT-763-00
758 to 803	780.5	12	1.10	1.70	2.5	0.6	CU4S0401AT-780-00	CU4S0401BT-780-00
777 to 787	782	15	0.90	1.50	2.5	0.6	CU4S0401AT-782-00	CU4S0401BT-782-00
773 to 803	788	12	1.00	1.70	2.5	0.6	CU4S0401AT-788-00	CU4S0401BT-788-00
788 to 798	793	15	0.90	1.50	2.5	0.6	CU4S0401AT-793-00	CU4S0401BT-793-00
791 to 821	806	12	0.90	1.70	2.5	0.6	CU4S0401AT-806-00	CU4S0401BT-806-00
807 to 824	815.5	13	0.85	1.60	2.5	0.6	CU4S0401AT-815-00	CU4S0401BT-815-00
815 to 830	822.5	13	0.85	1.60	2.5	0.6	CU4S0401AT-822-00	CU4S0401BT-822-00
815 to 845	830	12	0.90	1.70	2.5	0.6	CU4S0401AT-830-00	CU4S0401BT-830-00
814 to 849	831.5	12	0.90	1.70	2.5	0.6	CU4S0401AT-831-00	CU4S0401BT-831-00
824 to 849	836.5	12	0.85	1.70	2.5	0.6	CU4S0401AT-836-00	CU4S0401BT-836-00
830 to 845	837.5	13	0.85	1.60	2.5	0.6	CU4S0401AT-837-00	CU4S0401BT-837-00
832 to 862	847	12	0.90	1.70	2.5	0.6	CU4S0401AT-847-00	CU4S0401BT-847-00
852 to 869	860.5	13	0.85	1.60	2.5	0.6	CU4S0401AT-860-00	CU4S0401BT-860-00
860 to 875	867.5	13	0.85	1.60	2.5	0.6	CU4S0401AT-867-00	CU4S0401BT-867-00
860 to 890	875	12	0.90	1.70	2.5	0.6	CU4S0401AT-875-00	CU4S0401BT-875-00
859 to 894	876.5	12	0.90	1.70	2.5	0.6	CU4S0401AT-876-00	CU4S0401BT-876-00
869 to 894	881.5	12	0.85	1.70	2.5	0.6	CU4S0401AT-881-00	CU4S0401BT-881-00
875 to 890	882.5	13	0.85	1.60	2.5	0.6	CU4S0401AT-882-00	CU4S0401BT-882-00
880 to 915	897.5	12	0.90	1.70	2.5	0.6	CU4S0401AT-897-00	CU4S0401BT-897-00
900 to 915	907.5	13	0.90	1.50	2.5	0.6	CU4S0401AT-907-00	CU4S0401BT-907-00
925 to 960	942.5	12	0.90	1.70	2.5	0.6	CU4S0401AT-942-00	CU4S0401BT-942-00
945 to 960	952.5	13	0.90	1.50	2.5	0.6	CU4S0401AT-952-00	CU4S0401BT-952-00
1427.9 to 1462.9	1445.4	15	0.70	1.50	2.5	0.6	CU4S0401AT-1445-00	CU4S0401BT-1445-00
1475.9 to 1510.9	1493.4	15	0.70	1.50	2.5	0.6	CU4S0401AT-1493-00	CU4S0401BT-1493-00
1525 to 1559	1542	15	0.70	1.50	2.5	0.6	CU4S0401AT-1542-00	CU4S0401BT-1542-00
1626.5 to 1660.5	1643.5	15	0.70	1.50	2.5	0.6	CU4S0401AT-1643-00	CU4S0401BT-1643-00
1710 to 1785	1747.5	13	0.75	1.60	2.5	0.6	CU4S0401AT-1747-00	CU4S0401BT-1747-00
1749.9 to 1784.9	1767.4	15	0.60	1.50	2.5	0.6	CU4S0401AT-1767-00	CU4S0401BT-1767-00
1805 to 1880	1842.5	13	0.75	1.60	2.5	0.6	CU4S0401AT-1842-00	CU4S0401BT-1842-00
1844.9 to 1879.9	1862.4	15	0.60	1.50	2.5	0.6	CU4S0401AT-1862-00	CU4S0401BT-1862-00
1850 to 1910	1880	14	0.70	1.50	2.5	0.6	CU4S0401AT-1880-00	CU4S0401BT-1880-00
1850 to 1915	1882.5	14	0.70	1.50	2.5	0.6	CU4S0401AT-1882-00	CU4S0401BT-1882-00
1880 to 1920	1900	15	0.60	1.50	2.5	0.6	CU4S0401AT-1900-00	CU4S0401BT-1900-00
1920 to 1980	1950	14	0.70	1.50	2.5	0.6	CU4S0401AT-1950-00	CU4S0401BT-1950-00
1930 to 1990	1960	14	0.70	1.50	2.5	0.6	CU4S0401AT-1960-00	CU4S0401BT-1960-00
1930 to 1995	1962.5	14	0.70	1.50	2.5	0.6	CU4S0401AT-1962-00	CU4S0401BT-1962-00
2010 to 2025	2017.5	15	0.60	1.50	2.5	0.6	CU4S0401AT-2017-00	CU4S0401BT-2017-00
2110 to 2170	2140	14	0.70	1.50	2.5	0.6	CU4S0401AT-2140-00	CU4S0401BT-2140-00
2305 to 2315	2310	15	0.70	1.50	2.5	0.6	CU4S0401AT-2310-00	CU4S0401BT-2310-00
2300 to 2400	2350	13	0.75	1.60	2.5	0.6	CU4S0401AT-2350-00	CU4S0401BT-2350-00
2350 to 2360	2355	15	0.70	1.50	2.5	0.6	CU4S0401AT-2355-00	CU4S0401BT-2355-00
2500 to 2570	2535	14	0.70	1.50	2.5	0.6	CU4S0401AT-2535-00	CU4S0401BT-2535-00
2496 to 2690	2593	11	0.90	1.60	2.5	0.6	CU4S0401AT-2593-00	CU4S0401BT-2593-00
2570 to 2620	2595	14	0.70	1.50	2.5	0.6	CU4S0401AT-2595-00	CU4S0401BT-2595-00
2620 to 2690	2655	14	0.70	1.50	2.5	0.6	CU4S0401AT-2655-00	CU4S0401BT-2655-00

Characteristic Impedance (Ω) : 50(Nominal)

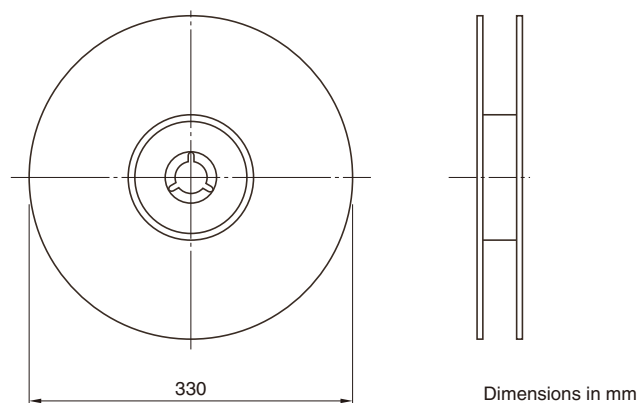
^{*4} To be kept below +85deg.C at the bottom surface

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

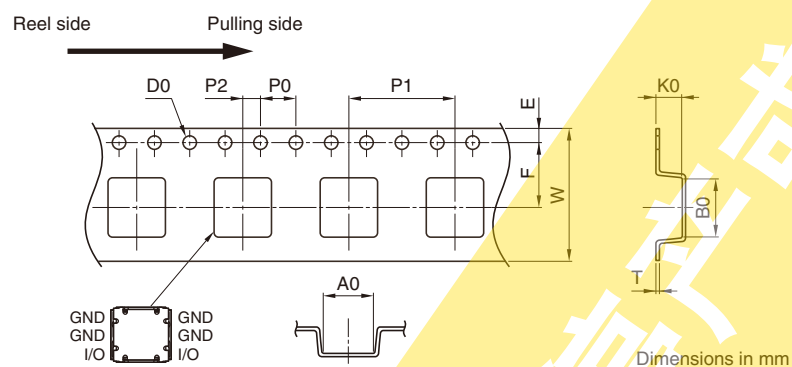
CU4S0401 Series

■ PACKAGING STYLE

□ REEL DIMENSIONS



□ TAPE DIMENSIONS



A0	B0	D0	E	F	P0	P1	P2	W	K0	T
4.8±0.1	4.4±0.1	1.5+0.1/-0	1.75±0.1	5.5±0.05	4.0±0.1	8.0±0.1	2.0±0.05	12.0+0.3/-0.1	2.2±0.1	0.3±0.05

■ PACKAGE QUANTITY

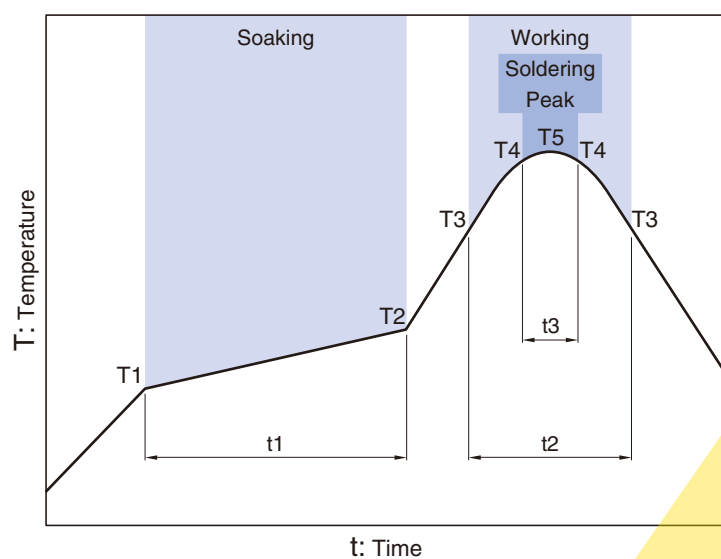
Standard package quantity
(pieces/reel)

2000

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

CU4S0401 Series

RECOMMENDED REFLOW PROFILE



Soaking			Working		Soldering Peak		
Temp.	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.

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

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
- (2) 交通运输设备（汽车，电动火车，船舶等）
- (3) 医疗设备
- (4) 发电控制设备
- (5) 原子能源相关设备
- (6) 海底设备
- (7) 交通控制设备

- (8) 公共信息处理设备
- (9) 军事设备
- (10) 电加热设备、燃烧设备
- (11) 防灾 / 预防犯罪设备
- (12) 安全设备
- (13) 其他不被视为常规用途的用途

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。