

March 2020

Circulator SMD

CU4S0506 Series

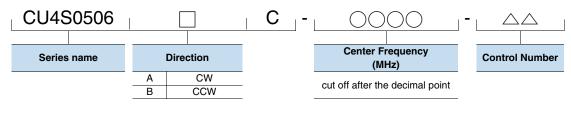
5x5mm∗

* Dimensions Code JIS

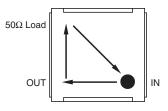
Circulator SMD

Overview of CU4S0506 Series

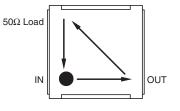
PART NUMBER CONSTRUCTION



DIRECTION OF CIRCULATION ClockWise(CW): A



CounterClockWise(CCW): B



TEMPERATURE RANGE

Operating temperature	Storage temperature			
(° C)	(°C)			
-40 to +105	-40 to +105			

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

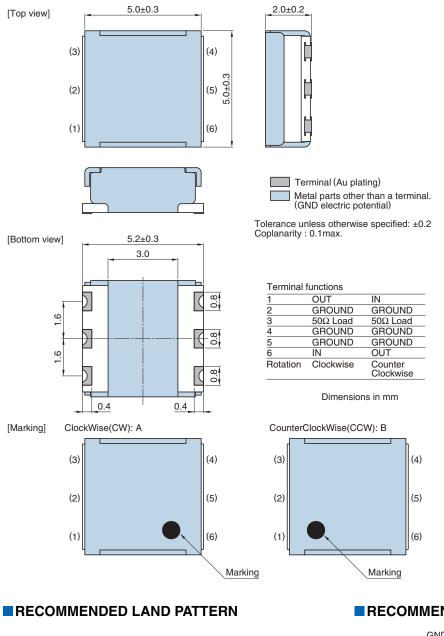
· All specifications are subject to change without notice.

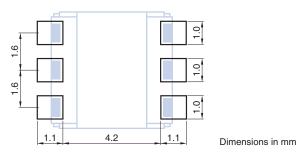
• Before using these products, be sure to request the delivery specifications.

⊗TDK

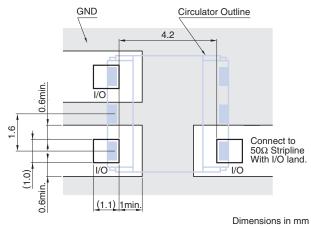
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SHAPES AND DIMENSIONS





RECOMMENDED PC BOARD PATTERN



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ELECTRICAL CHARACTERISTICS

Frequency range	Center frequency	Isolation	Insertion loss	V.S.W.R. Zo=50Ω	Handling power	Part Number	
(MHz)	(MHz)	(dB)	(dB)		(W)		
		min.	max.	max.	max.	ClockWise	CounterClockWise
869 to 894	881.5	11	1.05	1.8	5	CU4S0506AC-881-00	CU4S0506BC-881-00
925 to 960	942.5	11	1.05	1.8	5	CU4S0506AC-942-00	CU4S0506BC-942-00
1805 to 1880	1842.5	12	0.85	1.7	5	CU4S0506AC-1842-00	CU4S0506BC-1842-00
1880 to 1920	1900	14	0.80	1.6	5	CU4S0506AC-1900-00	CU4S0506BC-1900-00
2110 to 2170	2140	14	0.80	1.6	5	CU4S0506AC-2140-00	CU4S0506BC-2140-00
2300 to 2400	2350	12	0.85	1.7	5	CU4S0506AC-2350-00	CU4S0506BC-2350-00
2496 to 2690	2593	11	0.90	1.7	5	CU4S0506AC-2593-00	CU4S0506BC-2593-00
2570 to 2620	2595	12	0.85	1.6	5	CU4S0506AC-2595-00	CU4S0506BC-2595-00

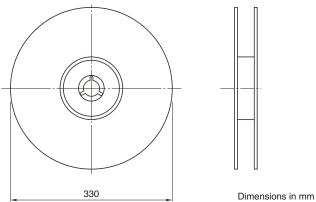
Characteristic Impedance (Ω) : 50(Nominal)

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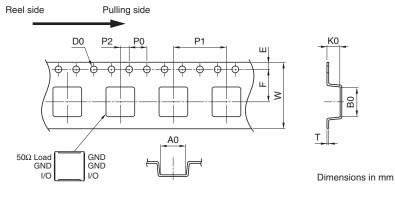
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PACKAGING STYLE

REEL DIMENSIONS



TAPE DIMENSIONS



A0	B0	D0	E	F	P0	P1	P2	W	K0	Т
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

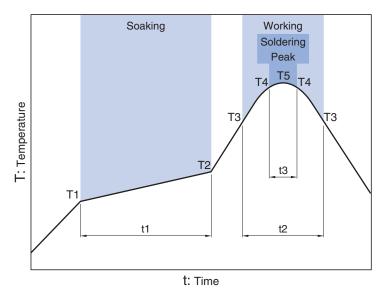
Standard package quantity				
(pieces/reel)				
1000				

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RECOMMENDED REFLOW PROFILE



Soaking			Working		Soldering	Soldering Peak		
Temp.		Time	Temp.	Time	Temp.	Time	Temp.	
T1	T2	t1	Т3	t2	Τ4	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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REMINDERS FOR USING THESE PRODUCTS

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

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

▲ REMINDERS

Please do not bring the magnet close to the product (Recommending is separating to 50cm or more). An electric characteristic might be deteriorated.

The magnetic field of 5mT or more must not go into the product when you make the magnet approach.

Moreover, please do not touch a soft magnetic material such as iron (Recommending is separating to 10mm or more). An electric characteristic might be deteriorated. An electric characteristic changes when bringing it close within 10mm(reversible change).

There is a leakage of some magnetism (0.3T or less) from the product.

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this catalog.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/ equipment or providing backup circuits, etc., to ensure higher safety.

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