

RF Components

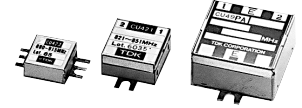
CU Series

Circulator/Isolator

Strip-Line and Pin-Terminal Type

FEATURES

- Perfect for high power circuits in the VHF/UHF bands, and for FM and TV transmitters.



PRODUCT IDENTIFICATION

Type name $_{*a}_{*b}_{*c}_{*d}_{*e}_{*f}$ $_{*a}$: Direction of circulation. Fill in with a letter A or B.

A: CW (clock-wise)

B: C, CW (counter clock-wise)

 $_{*b}$: Bandwidth

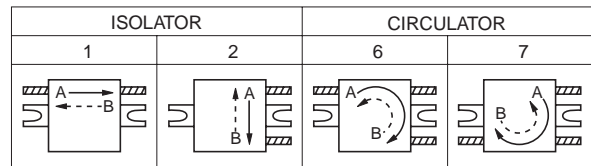
1: Standard bandwidth

2, 3, 5: Wide bandwidth

 $_{*c}$: Connector type

L: Strip-line type

P: Pin-type (coaxial-guide type)

 $_{*d}$: Center frequency (nominal frequency) $_{*e}$: Terminal position $_{*f}$: Circulator/Isolator specification

C: Circulator

T: Isolator

ELECTRICAL CHARACTERISTICS

Part No.	Frequency range (MHz)	Band width (%) max.	Isolation (dB) min.	Insertion loss (dB) max.	VSWR $Z_0=50\Omega$ max.	Maximum handling power (W)	Capacity of built-in resistor* (W)	Dimensions [Except connector] L×W×T(mm)	Weight (g)	Connector type
Circulator	Isolator									
CU48R $_{*a5*bL*c}_{*d}_{*e}T_{*f}$	100 to 200 200 to 400	20 20	18 18	0.7 0.7	1.25 1.25	30 30	30 30	50×50×20	170	Strip-line
CU44R $_{5L}_{-1}T$	470 to 600 600 to 770	Full Full	18 18	0.6 0.6	1.25 1.25	100 100	100 100	40×40×20	130	Strip-line
CU49P $_{3L}_{-6}C$	CU49P $_{3L}_{-1}T$	400 to 600 600 to 950	10 10	18 18	0.5 0.6	1.25 1.25	30 30	30×30×17	45	Strip-line
	CU49R $_{3L}_{-1}T$	400 to 600 600 to 950	10 10	18 18	0.5 0.6	1.25 1.25	70 70	30×30×18	60	Strip-line
CU421 $_{3L}_{-6}C$	CU421 $_{3L}_{-1}T$	800 to 1000	±3	18	0.6	1.3	10	20×20×10	15	Strip-line
	CU424 $_{1L}_{-}T$	800 to 1000	±3	18	0.6	1.4	10	20×20×6	8	Strip-line
	CU42K2B1P $_{-2}T$	254.4	±1	18	1.3	1.5	1			
	CU42L $_{1P}_{-2}T$	273	±2	15	1.5	1.5	1	15×15×7.1	6	Pin
		380.75	±1	20	0.8	1.4	1			
		422	±6.5	18	0.9	1.5	1			
		824 to 849	Full	18	0.6	1.3	10			
		890 to 915	Full	18	0.6	1.3	10			
		915 to 940	Full	18	0.6	1.3	10			
	CU42J $_{1P}_{-}T$	940 to 960	Full	18	0.6	1.3	10	15×15×7.1	7	Pin
	CU42K2 $_{1P}_{-}T$	872 to 905	Full	15	0.7	1.4	10			
		810 to 830	Full	18	0.6	1.3	10			
		1477 to 1501	Full	18	0.6	1.3	10			
		824 to 849	Full	18	0.8	1.4	5			
		890 to 915	Full	18	0.8	1.4	5			
		915 to 940	Full	18	0.8	1.4	5			
		940 to 960	Full	18	0.8	1.4	5			
	CU41K5 $_{1P}_{-}T$	872 to 905	Full	15	0.9	1.5	5	10×10×6	2.5	Pin
	CU41K3 $_{1P}_{-}T$	1429 to 1453	Full	18	0.8	1.4	5			
		1465 to 1477	Full	18	0.8	1.4	5			
		1710 to 1785	Full	18	0.9	1.5	5			
		1895 to 1918	Full	18	0.8	1.4	5			
		1805 to 1880	Full	20	0.4	1.2	10			
		1890 to 1920	Full	20	0.4	1.2	10			
		1930 to 1960	Full	20	0.4	1.2	10	20×20×6	15	Strip-line
	CU12R $_{3L}_{-1}T$	2110 to 2170	Full	20	0.4	1.2	10			

* Dummy load capability when converted to isolator.

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Circulator	Isolator	1805 to 1880	Full	20	0.4	1.2	30	25	20×20×8	30	Strip-line
		1890 to 1920	Full	20	0.4	1.2	30	25			
		1930 to 1960	Full	20	0.4	1.2	30	25			
		2110 to 2170	Full	20	0.4	1.2	30	25			
Circulator	Isolator	1805 to 1880	Full	20	0.4	1.2	80	50	25×25×9	30	Strip-line
		1890 to 1920	Full	20	0.4	1.2	80	50			
		1930 to 1960	Full	20	0.4	1.2	80	50			
		2110 to 2170	Full	20	0.4	1.2	80	50			

* Dummy load capability when converted to isolator.