

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 X^aX^bX^c-X^dX^eX^f

X^a: Direction of circulation. Fill in with a letter A or B.

A: CW (clock-wise)

B: C, CW (counter clock-wise)

X^b: Bandwidth

1: Standard bandwidth

2, 3, 5: Wide bandwidth

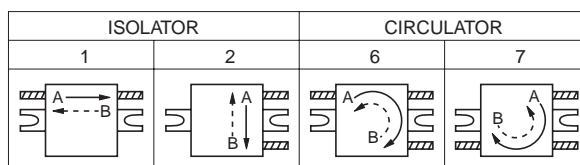
X^c: Connector type

L: Strip-line type

P: Pin-type (coaxial-guide type)

X^d: Center frequency (nominal frequency)

X^e: Terminal position



X^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 Zo=50Ω max.	Maximum handling power (W)	Capacity of built-in resistor* (W)	Dimensions [Except connector] L×W×T(mm)	Weight (g)	Connector type	
Circulator	Isolator	CU481X ^a 5 ^b L ^c -X ^d -X ^e C ^f	100 to 200	20	18	0.7	1.25	30	—	50×50×25	160	Strip-line
			200 to 400	20	18	0.7	1.25	30	—	50×50×25	160	Strip-line
		CU441X5L-X-6C	200 to 400	20	18	0.7	1.25	15	—	40×40×25	120	Strip-line
		CU442X5L-X-6C	400 to 800	15	18	0.7	1.25	50	—	40×40×25	120	Strip-line
			470 to 600	Full	18	0.7	1.25	50	—	40×40×25	120	Strip-line
			600 to 770	Full	18	0.7	1.25	50	—	40×40×25	120	Strip-line
		CU49PX3L-X-1T	400 to 950	10	18	0.7	1.25	30	30	30×30×17	45	Strip-line
		CU49RX3L-X-1T	400 to 950	10	18	0.7	1.25	70	70	30×30×18	60	Strip-line
			824 to 849	Full	18	0.6	1.3	10	5	20×20×10	15	Strip-line
			890 to 915	Full	18	0.6	1.3	10	5			
		CU421X3L-X-XT	915 to 940	Full	18	0.6	1.3	10	5			
			940 to 960	Full	18	0.6	1.3	10	5			
			872 to 905	Full	18	0.6	1.3	10	5			
		CU421X3L-X-XC	1429 to 1453	Full	18	0.6	1.3	10	5			
			870 to 950	Full	18	0.7	1.3	15	—	20×20×10	15	Strip-line
			824 to 849	Full	18	0.7	1.4	10	5	20×20×6	8	Strip-line
			890 to 915	Full	18	0.7	1.4	10	5			
		CU424X1L-X-XT	915 to 940	Full	18	0.7	1.4	10	5			
			940 to 960	Full	18	0.7	1.4	10	5			
			872 to 905	Full	15	0.7	1.4	10	5			
		CU42K2B1P-X-2T	254.4	±1	18	1.3	1.5	1	1	15×15×7.1	6	Pin
			273	±2	15	1.5	1.5	1	1			
		CU42LX1P-X-2T	380.75	±1	20	0.8	1.4	1	1			
			422	±6.5	18	0.9	1.5	1	1			
			824 to 849	Full	18	0.6	1.3	10	1	15×15×7.1	7	Pin
		CU42JX1P-X-XT	890 to 915	Full	18	0.6	1.3	10	1			
		CU41K2X1P-X-XT	915 to 940	Full	18	0.6	1.3	10	1			
			940 to 960	Full	18	0.6	1.3	10	1			
			872 to 905	Full	15	0.7	1.4	10	1			
			824 to 849	Full	18	0.7	1.3	5	1	15×15×7.1	7	Pin
			890 to 915	Full	18	0.7	1.3	5	1			
		CU42LX1P-X-2T	915 to 940	Full	18	0.7	1.3	5	1			
			940 to 960	Full	18	0.7	1.3	5	1			
			872 to 905	Full	15	0.8	1.4	5	1			
		CU42J3X1P-X-XT	824 to 849	Full	13	0.7	1.5	5	1	15×15×7.1	5	Pin
			890 to 915	Full	13	0.7	1.5	5	1			
		CU42L3X1P-X-2T	915 to 940	Full	13	0.7	1.5	5	1			
			940 to 960	Full	13	0.7	1.5	5	1			
			872 to 905	Full	13	0.7	1.5	5	1			

* Dummy load capability when converted to isolator.

- Temperature range: -10 to +50°C

RF Components

CU Series

Circulator/Isolator

Strip-Line and Pin-Terminal Type

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										
		824 to 849	Full	18	0.8	1.4	5	0.7	10×10×6	2.5	Pin
		890 to 915	Full	18	0.8	1.4	5	0.7			
		915 to 940	Full	18	0.8	1.4	5	0.7			
		940 to 960	Full	18	0.8	1.4	5	0.7			
	CU41K2X1P-X-XT	872 to 905	Full	15	0.9	1.5	5	0.7			
	CU41K3X1P-X-XT	1429 to 1453	Full	18	0.8	1.4	5	0.7			
		1465 to 1477	Full	18	0.8	1.4	5	0.7			
		1710 to 1785	Full	18	0.9	1.5	5	0.7			
		1895 to 1918	Full	18	0.8	1.4	5	0.7			
		824 to 849	Full	18	0.8	1.4	3	0.6	10×10×6	2.5	Pin
		890 to 915	Full	18	0.8	1.4	3	0.6			
	CU41LX1P-X-2T	915 to 940	Full	18	0.8	1.4	3	0.6			
		940 to 960	Full	18	0.8	1.4	3	0.6			
		872 to 905	Full	15	0.9	1.5	3	0.6			
		1805 to 1880	Full	18	0.4	1.3	10	4	20×20×6	15	Strip-line
		1890 to 1920	Full	18	0.4	1.3	10	4			
	CU12RX3L-X-1T	1930 to 1960	Full	18	0.4	1.3	10	4			
		2110 to 2170	Full	18	0.4	1.3	10	4			

* Dummy load capability when converted to isolator.

- Temperature range: -10 to +50°C