

RF Components

CU Series

Isolators

For Cellular Phone

FEATURES

- The application of low-loss YIG, high-dielectric-constant ceramic substrate, and other advanced circuit design technologies result in outstanding, highly stable performance characteristics.

PRODUCT IDENTIFICATION

Type name_ *a1F- _ *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)

_ *d: Center frequency(MHz)

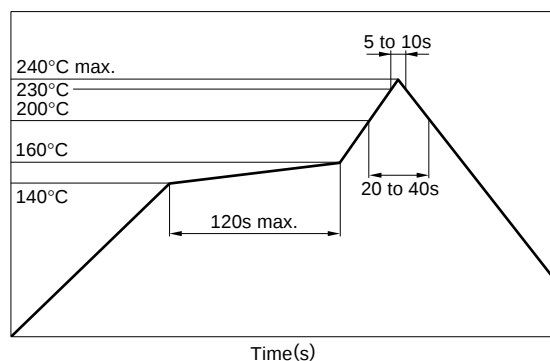
_ *e _ *f: Circulator/Isolator

1T: Isolator

8C: Circulator

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERINGS



RF Components

CU Series CU40W Type

Isolators

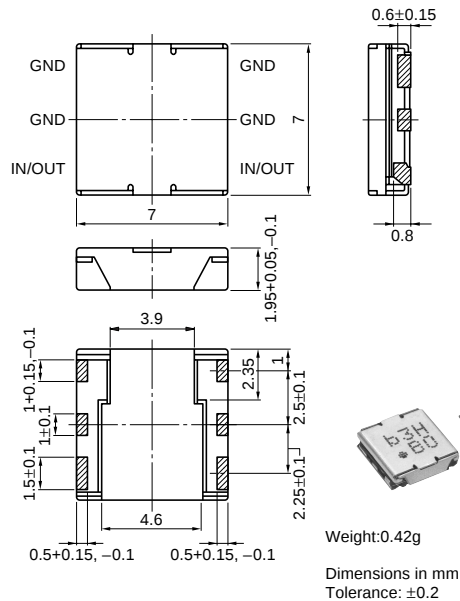
For Cellular Phone

CU40W TYPE

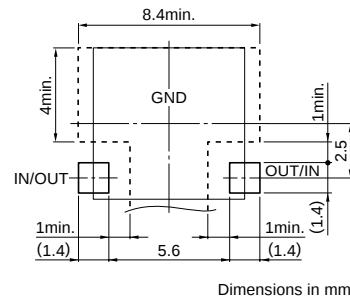
APPLICATIONS

Transmitter matching circuitry and interference protection for 0.8 to 1GHz band cellular telephones.

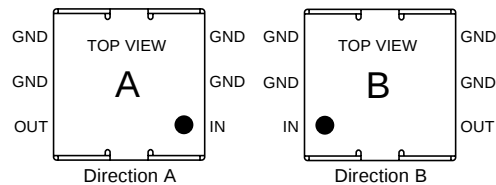
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN REFLOW SOLDERING



INPUT AND OUTPUT TERMINAL POSITIONS AND SIGNAL DIRECTIONS



ELECTRICAL CHARACTERISTICS

System	Frequency range (MHz)	Center frequency (MHz)	Isolation (dB)	Insertion loss (dB)	VSWR [$Z_0=50\Omega$]	Maximum handling power (W)	Capacity of built-in dummy load (W)	Part No.
			min.	max.	max.			
cdmaOne(JP)	887 to 925	906	13	0.6	1.6	2.5	0.6	CU40W_11F-906*2-1T
PDC800(NTT)	893 to 960	926.5	10	0.75	1.7	2.5	0.6	CU40W_1F-926.5-1T

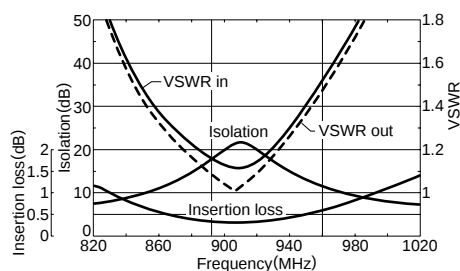
*1 Please specify signal output/input direction A or B.

*2 Center frequency (MHz)

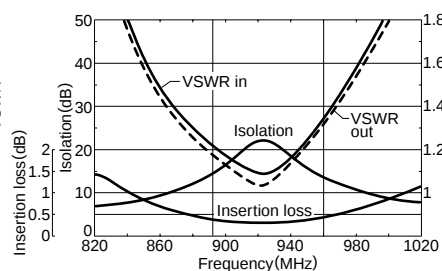
- Temperature range: -25 to $+85^\circ\text{C}$
- The case should be kept below 100°C during operation.
- Other frequencies are available on your request.

TYPICAL FREQUENCY CHARACTERISTICS (CU40WA1F-926.5-1T)

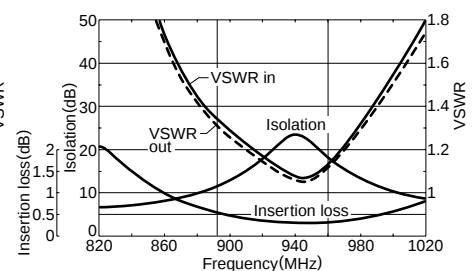
LOW TEMPERATURE [-25°C]



NORMAL TEMPERATURE [$+23^\circ\text{C}$]



HIGH TEMPERATURE [$+85^\circ\text{C}$]



RF Components

CU Series CU452 Type

Isolators

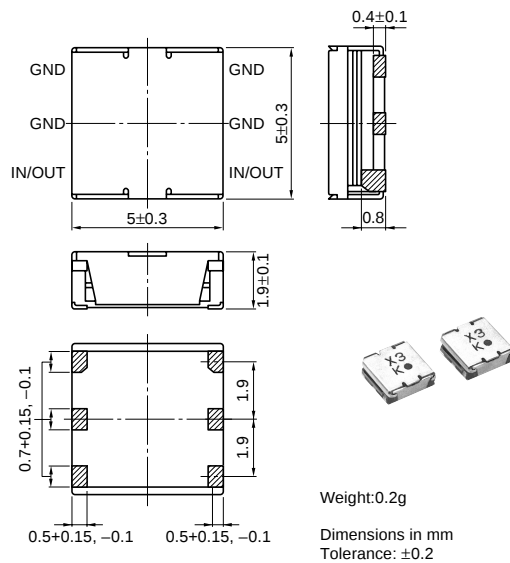
For Cellular Phone

CU452 TYPE

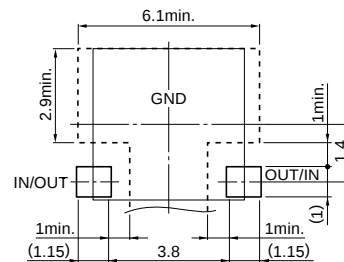
APPLICATIONS

Transmitter matching circuitry and interference protection for 1.5 to 2GHz band cellular telephones.

SHAPES AND DIMENSIONS

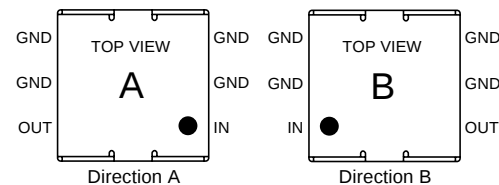


RECOMMENDED PC BOARD PATTERN REFLOW SOLDERING



Dimensions in mm

INPUT AND OUTPUT TERMINAL POSITIONS AND SIGNAL DIRECTIONSEL



ELECTRICAL CHARACTERISTICS

System	Frequency range (MHz)	Center frequency (MHz)	Isolation (dB)	Insertion loss (dB)	VSWR[Z ₀ =50Ω]	Maximum handling power (W)	Capacity of built-in dummy load (W)	Part No.
			min.	max.	max.			
PDC1.5	1429 to 1453	1441	15	0.6	1.5	2.5	0.6	CU452_ *1F-1441*2-1T
PCS(Korea)	1750 to 1780	1765	15	0.6	1.5	2.5	0.6	CU452_1F-1765-1T
PCS(U.S.)	1850 to 1910	1880	13	0.6	1.5	2.5	0.6	CU452_1F-1880-1T
IMT-2000	1920 to 1980	1950	13	0.6	1.5	2.5	0.6	CU452_1F-1950-1T

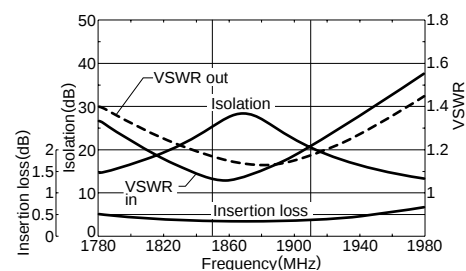
*1 Please specify signal output/input direction A or B.

*2 Center frequency (MHz)

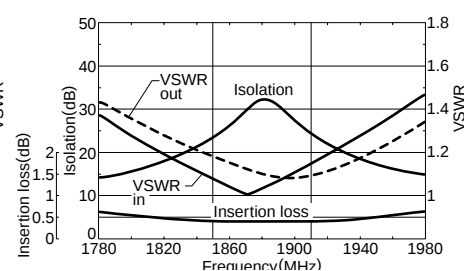
- Temperature range: -25 to $+85^{\circ}\text{C}$
- The case should be kept below 100°C during operation.
- Other frequencies are available on your request.

TYPICAL FREQUENCY CHARACTERISTICS (CU452A1F-1880-1T)

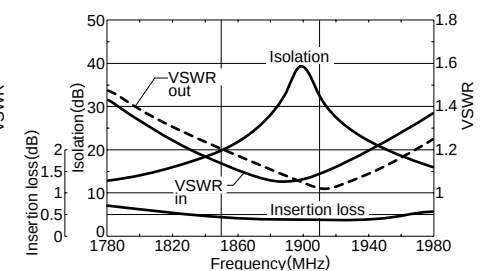
LOW TEMPERATURE [-25°C]



NORMAL TEMPERATURE [$+23^{\circ}\text{C}$]



HIGH TEMPERATURE [$+85^{\circ}\text{C}$]



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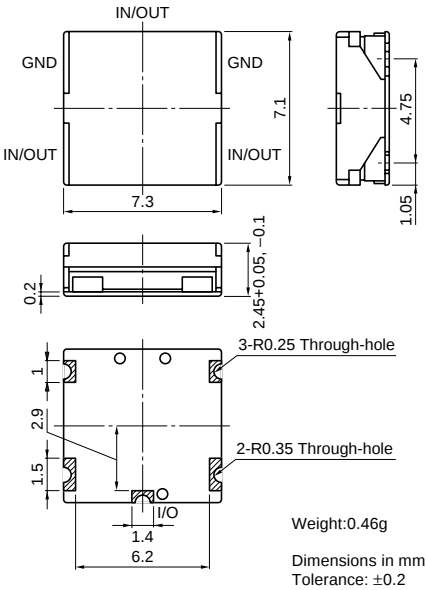
CU Series CU405 Type

CU405 TYPE

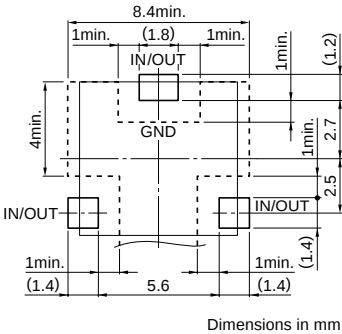
APPLICATIONS

For matching of amplifier of PHS base station.

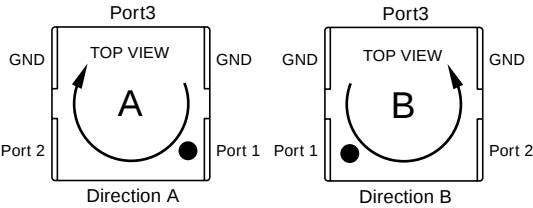
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN
REFLOW SOLDERING



INPUT AND OUTPUT TERMINAL POSITIONS AND
SIGNAL DIRECTIONS



ELECTRICAL CHARACTERISTICS

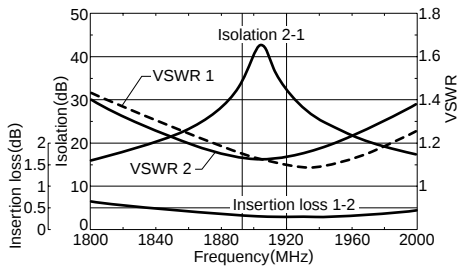
System	Frequency range (MHz)	Center frequency (MHz)	Isolation (dB)	Insertion loss (dB)	VSWR[Z ₀ =50Ω]	Maximum handling power (W)	Part No.
			min.	max.	max.		
PHS	1893 to 1920	1906.5	15	0.6	1.5	2.5	CU405_ *11F-1906.5*2-8C

*1 Please specify signal output/input direction A or B.

*2 Center frequency (MHz)

- Temperature range: -25 to +85°C
- The case should be kept below 100°C during operation.
- Other frequencies are available on your request.

TYPICAL FREQUENCY CHARACTERISTICS (CU405A1F-1906.5-8C)
NORMAL TEMPERATURE [+23°C]



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