

# R E V I S I O N S

DATE	REVISIONS	CLIENT
① 2000.06.17	GENERAL CHARACTERISTICS SPECIFICATION ADDED(P.5/5)	GRC CHENYUNHUA
② 8th, Aug., 2000 PG00-1476	COMPANY NAME TO BE CHANGED	GRC HUANGDONGRONG
③ 10th, Aug., 2000 PG00-1764	D.C.R.CONDITIONS TO BE CHANGED(P.3/5) (1-2), (3-4) SHORT (1-4), (2-3) D.C.R STANDARDS TO BE CHANGED 01、 02、 03:120 60(P.3/5) 04:60 30(P.3/5) IMPEDANCE TO BE CHANGED:100 ~ 300MHz 10 ~ 300MHz(P.3/5) RATED CURRE TO BE CHANGED:(1-2) (1-3);(3-4) (2-4)(P.3/5) MEASURING METHOD TO BE ADDED(P.3/5)	GRJ WATANABE
④ 3th, May., 2001 PG01-0817	CASE TO BE CHANGED(P.2/5)	GRC YIQIUYUN
⑤ 13th, Mar., 2002 PG02-0478	PART NO TO BE CHANGED(P.3/5、 4/5) CPFC74-PS03H2A25 CPFC74-PS03H1A25	TPD HENRY HU

5 t h , A p r . , 1 9 9 9

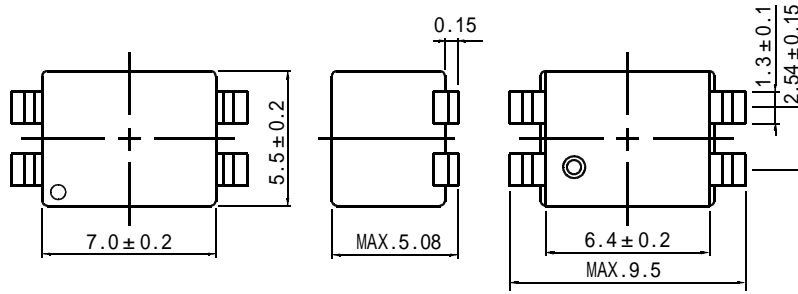
SAMPLE NO. 0 2 9 6 - T 0 6 5

C H K .	C H K .	D R G .
CHEN WEIMING	DENG WEISHI	CHEN YUNHUA WL

DRG. NO.	1 / 5
S - 0 7 4 - 6 0 7 2	

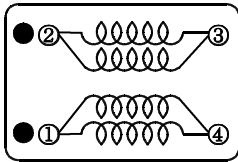
	<b>SPECIFICATION</b>	
	SUMIDA TYPE C P F C 7 4	PART NO. REF. TO THE ATTACHED SHEET.

1. DIMENSION (UNIT mm)  $\triangle$



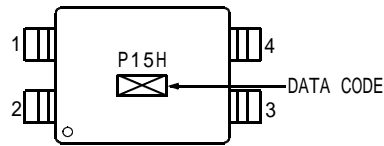
- \* DIMENSION DOES NOT INCLUDE SOLDER USED ON COIL.
- \* DIMENSION WITHOUT TOLERANCE IS APPROX.

2. CONNECTION (BOTTOM)



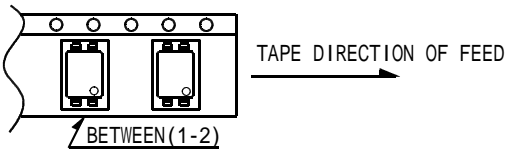
● MARKING OF POLARITY

3. STAMP (Exc.)  $\triangle$



4. NOTE

- \* RECOMMENDED REFLOW CONDITIONS ARE BASED ON S-074-5003.
- \* ENCLOSING CONDITION OF COILS.  $\triangle$



- \* CARRIER TAPE PACKING SPECIFICATION IN DETAIL. (S-074-5051)
- \* A TERMINAL PITCH DIFFERENCE MAX. 0.15mm.

5th, Apr., 1999			SUMIDA CODE	4 2 5 1
CHK.	CHK.	DRG.	DRG. NO. 2 / 5	
CHEN WEIMING	DENG WEISHI	CHEN YUNHUA WL		
			<b>S-074-6072</b>	



# SPECIFICATION

TYPE CPFC74
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## ELECTRICAL CHARACTERISTICS

NO.	PART NO.	STAMP	IMPEDANCE ( ) (L1,L2 PARALLEL)	INSULATION RESISTANCE ( M ) (COIL-COIL) DC 100V 1min.	WITHSTANDING VOLTAGE (COIL-COIL) (5sec)	D.C.R.(m ) at 20 [MAX.] (1-2),(3-4) SHORT( 2) △	RATED CURRENT (1-2)(A) (3-4) SHORT 1 △	SUMIDA CODE
01	CPFC74-PS10H2A15	P15H	MIN. 700 (100 MHz)	MIN. 10	D.C.125V	120	1.5	-0005
02	CPFC74-PS02H2A20	P20H	MIN. 200 (20 ~ 300MHz)	MIN. 10	D.C.125V	120	2.0	-0006
03	CPFC74-PS03H2A25 △	P25H	MIN. 300 (160 MHz)	MIN. 10	D.C.125V	120	2.5	-0007
04	CPFC74-PS01H2A30	P30H	MIN. 100 (100 ~ 300MHz)	MIN. 10	D.C.125V	60	3.0	-0008

1: RATED CURRENT: D.C. CURRENT WHEN TEMPERATURE OF COIL INCREASED UP TO 40 . (Ta=20 )

△ 2: D.C.R. IS MEASURED BY 2 LINES AS SERIES BECAUSE IMPEDANCE WILL BE DETERIORATED WHEN D.C.R. IS MEASURED BY 1 LINE.

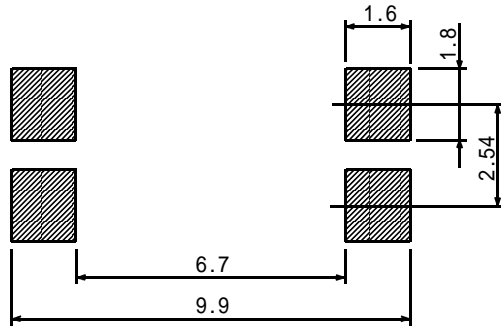
5th, Apr, 1999			SUMIDA CODE	4251
CHK.	CHK.	DRG.	DRG. NO. 3/5 <b>S-074-6072</b>	
CHEN WEIMING	DENG WEISHI	CHEN YUNHUA WL		



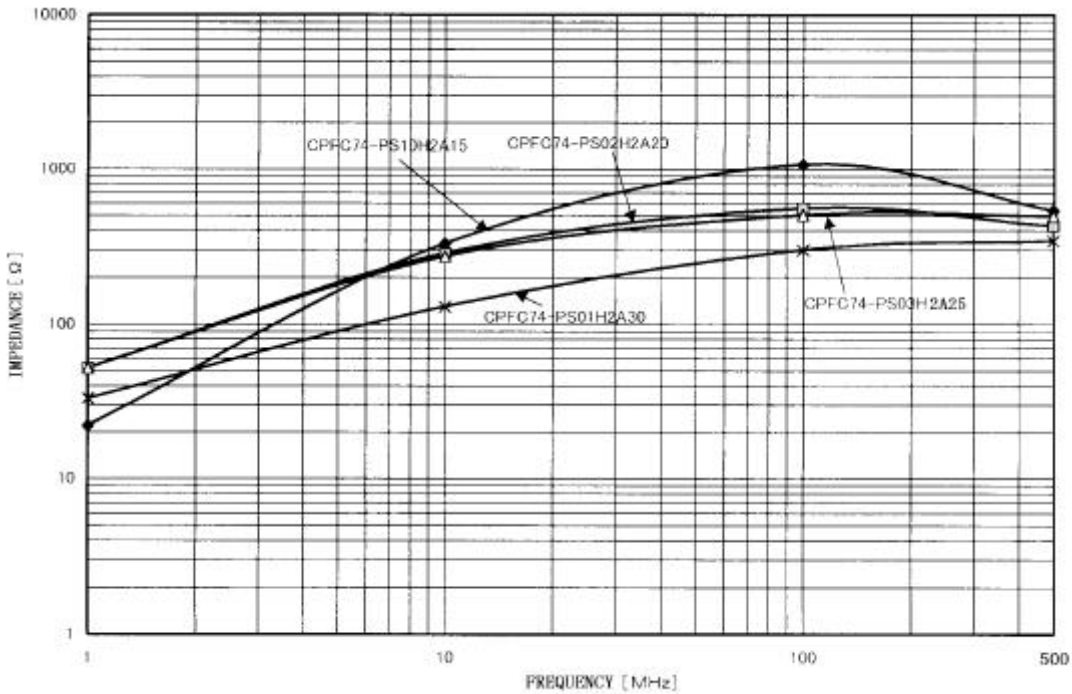
# SPECIFICATION

TYPE CPFC74
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DIMENSION RECOMMENDED (mm)



## IMPEDANCE CHARACTERISTICS



5th, Apr., 1999

CHK.	CHK.	DRG.
CHEN WEIMING	DENG WEISHI	CHEN YUNHUA WL

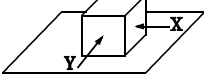
DRG. NO.	4 / 5
S-074-6072	



# GENERAL CHARACTERISTICS

TYPE

CPFC74

1. STORAGE TEMPERATURE RANGE : -40 ~ +100
2. OPERATING TEMPERATURE RANGE : -25 ~ +85
3. EXTERNAL APPEARANCE : NO EXTERNAL DEFECTS CAN BE FOUND IN THE VISUAL INSPECTION.
4. FIXING STRENGTH : NO TERMINAL DETACHMENT SHOULD BE FOUND WHEN THE DEVICE IS PUSHED IN TWO DIRECTIONS OF X AND Y WITH THE FORCE OF 5.0N FOR 10 SECONDS AFTER SOLDERING BETWEEN COPPER PLATE AND THE TERMINALS.  
△ (REFER TO FIGURE AT RIGHT)
 
5. HEAT ENDURANCE TEST : REFER TO S-074-5002.
6. INSULATING RESISTANCE: THE INSULATION RESISTANCE SHOULD BE OVER 100M WHEN D.C. 100V IS APPLIED TO THE WINDING-WINDING AND COIL-OTHER PARTS, MEANWHILE NO STRUCTURE AND ELECTRIC DEFECTS SHOULD BE FOUND IN 1 MINUTE.
7. HUMIDITY TEST : IMPEDANCE DEVIATION IS WITHIN  $\pm 5\%$ , ELECTRIC DEFECTS CAN BE FOUND AFTER  $96 \pm 4$  HOURS TEST UNDER THE CONDITION OF RELATIVE HUMIDITY OF  $90 \sim 95\%$  AND TEMPERATURE OF  $40 \pm 2$  , AND 1~2 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER THE DEVICE IS WIPED WITH DRY CLOTH.
8. VIBRATION TEST : IMPEDANCE DEVIATION IS WITHIN  $\pm 3\%$  AFTER 1 HOUR SWEEPING VIBRATION IN EACH THREE DIRECTIONS, NAMELY, FORWARD AND BACKWARD, UP AND DOWN, RIGHT AND LEFT. THE FREQUENCY IS  $10 \sim 55 \sim 10\text{Hz}$  AND THE AMPLITUDE OF 3 MINUTE CYCLE IS 1.5mm PP.
9. SHOCK TEST : IMPEDANCE DEVIATION IS WITHIN  $\pm 3\%$  AFTER THE TEST WITH GOM-BLOCK SHOCK TESTING MACHINE, ONCE IN EACH OF THE THREE PERPENDICULAR AXIS DIRECTIONS. THE SHOCK ACCELERATION IS  $981\text{m/s}^2$ .
10. SOLDER ABILITY : TERMINAL ARE IMMERSERD IN ROSIN (JIS-K-5902) WITH METHANOL(JIS-K-1501) (25%)FOR 5 SECONDS. THEN DIPPED IN  $230 \pm 5$  MOLTEN SOLDER(JIS-Z-3282 H63A)FOR  $3 \pm 0.5$  SECONDS.95% OF THE AREAS OF THE IMMERSERD TERMINALS SHOULD BE COVERD BY SOLDER COATING.
11. HIGH TEMPERATURE STORAGE TEST : CHANGE OF IMPEDANCE SHOULD BE WITHIN  $\pm 10\%$  UNDER TESTING CONDITION WHICH TAKE IT OUT AFTER KEEPING IT IN  $100 \pm 2$  ,  $96 \pm 4$  HOURS CONTINUOUSLY. AND LEAVE IT IN NORMAL CONDITION FOR 1 HOUR, AND THEN MEASURED IT WITHIN 2 HOURS.
12. LOW TEMPERATURE STORAGE TEST : CHANGE OF IMPEDANCE SHOULD BE WITHIN  $\pm 10\%$  UNDER TESTING CONDITION WHICH TAKE IT OUT AFTER KEEPING IT IN  $-40 \pm 3$  ,  $96 \pm 4$  HOURS CONTINUOUSLY. AND LEAVE IT IN NORMAL CONDITION FOR 1 HOUR, AND THEN MEASURED IT WITHIN 2 HOURS.

5th, Apr., 1999

CHK.	CHK.	DRG.
CHEN WEIMING	DENG WEISHI	CHEN YUNHUA WL

DRG. NO.	5 / 5
<b>S-074-6072</b>	