High Frequency Winding Type Chip Inductor SWI0805UF-SERIES

	ECN HISTORY LIST										
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN						
1.0	20/04/28	新 發 行	楊祥忠	徐鋒強	何玉蓮						
備											
1用 											
註											

High Frequency Winding Type Chip Inductor

SWI0805UF-SERIES

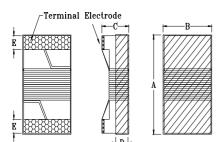
1. Features

- 1. Ceramic core wire wound construction.
- 2. No batch to batch variations in inductance
- 3. High Reliability due to ceramic wire wound construction.
- 4. High frequency application.
- 5. Small footprint as well as low profile.
- 6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 7. Operating temperature-40~+125°C (Including self temperature rise)





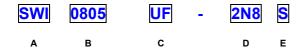
2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWI0805	2.29 max.	1.73 max.	1.52 max.	0.51 ref.	0.44±0.1

Unit:mm

3. Part Numbering



A: Series

B: Dimension

LxW

C: Material D: Inductance

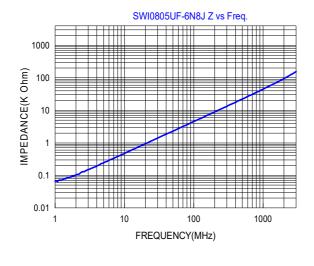
2N8=2.8nH

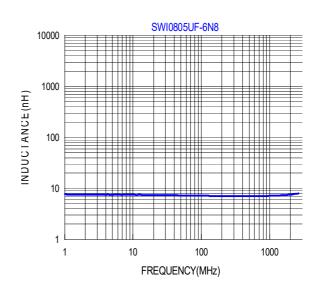
E: Inductance Tolerance C=±0.2nH, S=±0.3nH, G=±2%, J=±5%

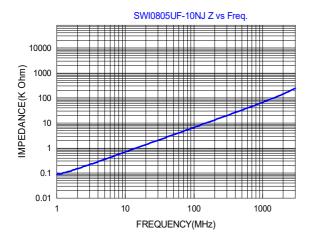
4. Specification

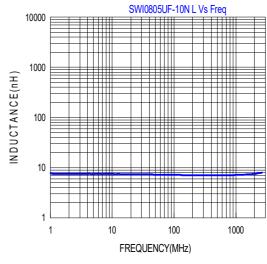
Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0805UF-2N8	2.8	C,S	0.1V/250M	80/1500	800	0.06	7900
SWI0805UF-3N0	3.0	C,S	0.1V/250M	65/1500	800	0.06	7900
SWI0805UF-3N3	3.3	C,S	0.1V/250M	50/1500	600	0.08	7900
SWI0805UF-5N6	5.6	C,S	0.1V/250M	65/1000	600	0.08	5500
SWI0805UF-6N8	6.8	C,J	0.1V/250M	50/1000	600	0.11	5500
SWI0805UF-7N5	7.5	C,J	0.1V/250M	50/1000	600	0.14	4500
SWI0805UF-8N2	8.2	C,J	0.1V/250M	50/1000	600	0.12	4700
SWI0805UF-10N	10	G,J	0.1V/250M	60/500	600	0.10	4200
SWI0805UF-12N	12	G,J	0.1V/250M	50/500	600	0.15	4000
SWI0805UF-15N	15	G,J	0.1V/250M	50/500	600	0.17	3400
SWI0805UF-18N	18	G,J	0.1V/250M	50/500	600	0.20	3300
SWI0805UF-22N	22	G,J	0.1V/250M	55/500	500	0.22	2600
SWI0805UF-24N	24	G,J	0.1V/250M	50/500	500	0.22	2000
SWI0805UF-27N	27	G,J	0.1V/250M	55/500	500	0.25	2500
SWI0805UF-33N	33	G,J	0.1V/250M	60/500	500	0.27	2050

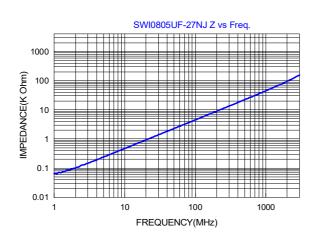
Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0805UF-36N	36	G,J	0.1V/250M	55/500	500	0.27	1700
SWI0805UF-39N	39	G,J	0.1V/250M	60/500	500	0.29	2000
SWI0805UF-43N	43	G,J	0.1V/200M	60/500	500	0.34	1650
SWI0805UF-47N	47	G,J	0.1V/200M	60/500	500	0.31	1650
SWI0805UF-56N	56	G,J	0.1V/200M	60/500	500	0.34	1550
SWI0805UF-68N	68	G,J	0.1V/200M	60/500	500	0.38	1450
SWI0805UF-82N	82	G,J	0.1V/150M	65/500	400	0.42	1300
SWI0805UF-91N	91	G,J	0.1V/150M	65/500	400	0.48	1200
SWI0805UF-R10	100	G,J	0.1V/150M	65/500	400	0.46	1200
SWI0805UF-R11	110	G,J	0.1V/150M	50/250	400	0.48	1000
SWI0805UF-R12	120	G,J	0.1V/150M	50/250	400	0.51	1100
SWI0805UF-R15	150	G,J	0.1V/100M	50/250	400	0.56	920
SWI0805UF-R18	180	G,J	0.1V/100M	50/250	400	0.64	870
SWI0805UF-R20	200	G,J	0.1V/100M	50/250	400	0.68	860
SWI0805UF-R22	220	G,J	0.1V/100M	50/250	400	0.70	850
SWI0805UF-R24	240	G,J	0.1V/100M	44/250	350	1.00	690
SWI0805UF-R25	250	G,J	0.1V/100M	45/250	350	1.20	660
SWI0805UF-R27	270	G,J	0.1V/100M	48/250	350	1.00	650
SWI0805UF-R33	330	G,J	0.1V/100M	48/250	310	1.40	600
SWI0805UF-R39	390	G,J	0.1V/100M	48/250	290	1.50	560
SWI0805UF-R47	470	G,J	0.1V/50M	33/100	250	1.70	375
SWI0805UF-R56	560	G,J	0.1V/25M	23/50	230	1.90	340
SWI0805UF-R62	620	G,J	0.1V/25M	23/50	210	2.20	220
SWI0805UF-R68	680	G,J	0.1V/25M	23/50	190	2.20	188
SWI0805UF-R82	820	G,J	0.1V/25M	23/50	180	2.35	215
SWI0805UF-1R0	1000	G,J	0.1V/25M	15/50	170	2.5	100
SWI0805UF-1R2	1200	G,J	0.1V/7.9M	18/25	170	2.5	100

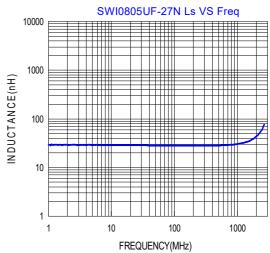


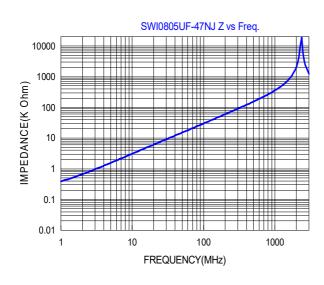


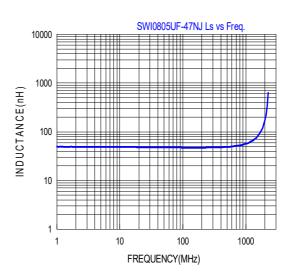


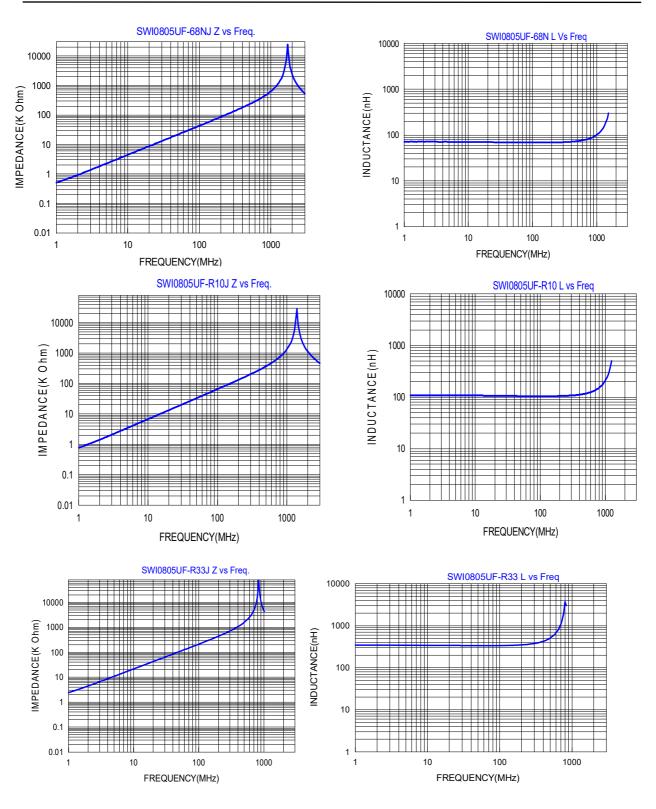






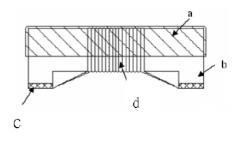






5. Materials

No.	Description	Specification
a.	Upper Plate	UV Glue
b.	Core	Ceramics Core
С	Termination	Ag/Ni/Sn
d	Wire	Enameled Copper Wire



6. Reliability and Test Condition

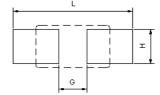
Item	Performance	Test Condition
Operating temperature	-40~+125℃ (Including self - temperature rise)	
Storage temperature	-40~+125℃ (on board)	
Electrical Performance T	est	,
Inductance L		Agilent-4291, Agilent-4287
Q		Agilent-4192, Agilent-4285
SRF		Agilent-4291
	Refer to standard electrical characteristic list	Agilent-4192
DC Resistance		Agilent-34420A
Rated Current		Applied the current to coils, the inductance change shall be less
		than 20% to initial value.
Reliability Test		
Life Test		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles) Temperature: 125±2°C Applied current: rated current Duration: 1000±12hrs Measured at room temperature after placing for 24±2 hrs.
Load Humidity		Preconditioning: Run through IR reflow for 2 times, IPC/JEDECJ-STD-020DClassification Reflow Profiles) Humidity: $85\pm2\%$ R.H, Temperature: $85\%\pm2\%$ Duration: 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24 ±2 hrs.
Moisture Resistance	Appearance: No damage. Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 2 times. (IPC/JEDECJ-STD-020DClassification Reflow Profiles) 1. Baked at50°C for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 3. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs, keep at 25°C for 2 hrs then keep at -10°C for 3 hrs 4. Keep at 25°C 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1-2 hrs.
Thermal shock		Preconditioning: Run through IR reflow for 2 times, (IPC/JEDECJ-STD-020DClassification Reflow Profiles) Condition for 1 cycle Step1: -40±2℃ 30±5min Step2: 25±2℃ ≤0.5min Step3: 125±2℃ 30±5min Number of cycles: 500 Measured at room fempraturc after placing for 24±2 hrs. Oscillation Frequency: 10Hz~2KHz~10Hz for 20 minute
Vibration		Equipment: Vibration checker Total Amplitude:10g Testing Time: 12 hours(20 minutes, 12 cycles each of 3 orientations) •

Item	Performance			Test	Cond	lition	
Bending	Appearance : No damage. Inductance : within±10% of initial value	Shall be mounted on a FR4 substrate of the following dimensions: >=0805 inch(2012mm):40x100x1.2mm <0805 inch(2012mm);40x100x0.8mm Bending depth: >=0805 inch(2012mm):1.2mm <0805 inch(2012mm):0.8mm duration of 10 sec.					
	Q : Shall not exceed the specification value. RDC : within ±15% of initial value and shall not exceed the specification value	Туре	Peak value (g's)	Norma duration ((ms)	(D) \	Wave form	Velocity change (Vi)ft/sec
Shock		SMD	50	11	Ha	alf-sine	11.3
		Lead	50	11	На	alf-sine	11.3
Solder ability	More than 95% of the terminal electrode should be covered with solder.	Solder Tempe Flux fo Dip tin Depth:	at: 150°C,60°c; Sn96.5% A erature: 245- or lead free: I ne: 4±1sec • : completely : completely	1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	%⊸ terminat		
Resistance to Soldering Heat		Ten	nperature(°C		Tem ramp/ and em	nperature /immersion mersion rate	Number of heat cycles
Terminal Strength	Appearance: No damage. Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value e	Temperature(°C) Time(s) ramp/immersion Number heat cycl			the device to be g)to the side of a plied for 60 +1 ly as not to apply		

7. Soldering and Mounting

7-1. Recommended PC Board Pattern

Chip size								l Pattern ow Sold	
Series	Туре	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	L(mm)	G(mm)	H(mm)
SWI	0805	2.29max.	1.73max.	1.52max	0.51 ref	0.44±0.1	2.80	1.25	1.78



7-2. Soldering

Mildly activated rosin fluxes are preferred. TAI-TECH terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

7-2.1 Solder re-flow:

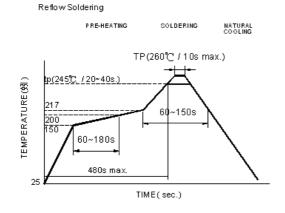
Recommended temperature profiles for re-flow soldering in Figure 1.

7-2.2 Soldering Iron(Figure 2):

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

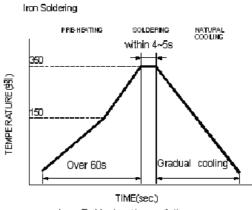
- Preheat circuit and products to 150°C
- Never contact the ceramic with the iron tip
- $\boldsymbol{\cdot}$ Use a 20 watt soldering iron with tip diameter of 1.0mm

- 350°C tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 4~5 sec.



Reflow times: 3 times max.

Fig.1

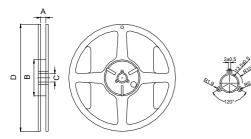


Iron Soldering times: 1 times max.

Fig.2

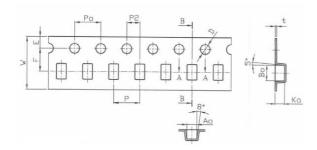
8. Packaging Information

8-1. Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	8.4±0.5	60±2	13.5±0.5	178±2

8-2. Tape Dimension / 8mm

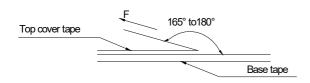


Series	W(mm)	P(mm)	E(mm)	F(mm)	P2(mm)	D(mm)	P0(mm)	A0(mm)	B0(mm)	K0(mm)	t(mm)
SWI0805UF	8.00±0.10	4.00±0.10	1.75±0.10	3.50±0.05	2.00±0.05	1.50+0.10/-0.00	4.00±0.10	1.80±0.10	2.30±0.10	1.60±0.10	0.23±0.05

8-3. Packaging Quantity

Chip size	0805
Reel	2000
Reel Size	7"x8mm

8-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed
(℃)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

Application Notice

- Storage Conditions(component level)
- To maintain the solderability of terminal electrodes:
- ${\bf 1.\ TAI-TECH\ products\ meet\ IPC/JEDEC\ J-STD-020D\ standard-MSL,\ level\ 1.}$
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
 - 1.Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 - 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
 - 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.



Test Report

號碼(No.): CE/2020/34939

日期(Date): 2020/03/27

頁數(Page): 1 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件(泗洪)有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD · ECONOMIC DEVELOPMENT ZONE · SIHONG COUNTY · SUQIANCITY · JIANGSU PROVINCE · P. R · CHINA)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description)

CERAMIC SERIES

樣品型號(Style/Item No.)

SWI(SWC) - SWC_I SERIES

收件日期(Sample Receiving Date)

2020/03/20

測試期間(Testing Period)

2020/03/20 to 2020/03/27

測試結果(Test Results) :

請參閱下一頁 (Please refer to following pages).







Test Report

號碼(No.): CE/2020/34939 日期(Date): 2020/03/27 頁數(Page): 2 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD,KUNJIA HI-TECH INDUSTRIAL PARK,KUN-SHAN,JIANG-SU,CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P, R, CHINA)

測試結果(Test Results)

測試部位(PART NAME)No.1

: 整體混測 (MIXED ALL PARTS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
錦 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013),以感應耦合 電漿發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n. d.
鉛 / Lead (Pb)	mg/kg		2	n. d.
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4:2013+ AMD1:2017, 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321- 4:2013+ AMD1:2017 and performed by ICP-OES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321-7-2 (2017),以UV-VIS 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg	参考IEC 62321-6 (2015),以氣相層析 /質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	_	n. d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.
へ溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sus.com/en/Terms-and-Conditions.asce.
and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sus.com/en/Terms-and-conditions/terms-e-document.
Attention is drawn to the limitation of liability, Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the lime of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced, except in full, without prior written approved of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Test Report

號碼(No.): CE/2020/34939

日期(Date): 2020/03/27 頁數(Page): 3 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P, R, CHINA)

测試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)
Point was the control of DDDE				No. 1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		<u>-</u>	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	_	5	n. d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg	<u> </u>	5	n. d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	A H I I I I I I I I I I I I I I I I I I	5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	参考IEC 62321-6 (2015),以氣相層析	5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed	5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	by GC/MS.	5	n. d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg	by control	5	n, d.
へ溴聯苯醚 / Octabromodiphenyl ether	mg/kg	Τ	5	n. d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	- -	5	n, d,
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n. d.
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	参考IEC 62321 (2008),以氣相層析/ 質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.
鹵素 / Halogen				
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	参考BS EN 14582 (2016),以離子層析 儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	n. d.
鹵素(氣)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg		50	n. d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n. d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions.assx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Test Report

號碼(No.): CE/2020/34939

日期(Date): 2020/03/27

頁數(Page): 4 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P. R., CHINA)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	参考IEC 62321-8 (2017),以氣相層析 /質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg		50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg		50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg		50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n. d.
鄭苯二甲酸二正己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg		50	n. d.
鄰苯二甲酸二戊酯 / DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0)	mg/kg		50	n. d.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/terms-en-document, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced, except in full, without prior written approval of the Company, Any unauthorized attention, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Test Report

號碼(No.): CE/2020/34939 日期(Date): 2020/03/27

頁數(Page): 5 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件(泗洪)有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P. R., CHINA)

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出)
- 4. "-" = Not Regulated (無規格值)
- 5. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個別單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sas.com/en/Terms-and-Conditions-accessible-at-http://www.sas.com/en/Terms-and-Conditions-accessible-at-http://www.sas.com/en/Terms-and-conditions-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessible-at-http://www.sas.com/en/Terms-accessibl



Test Report

號碼(No.): CE/2020/34939

日期(Date): 2020/03/27

頁數(Page): 6 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件(泗洪)有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

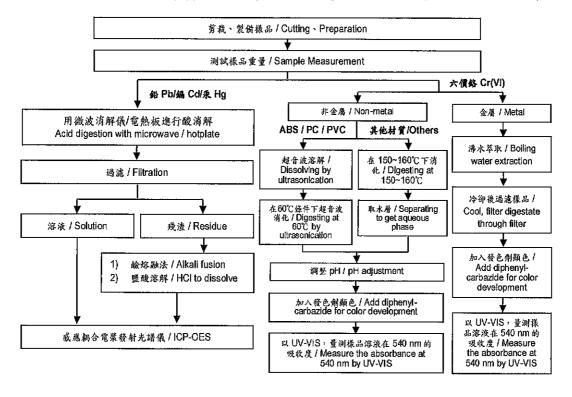
桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市筵朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P. R., CHINA)

重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。〔六價絡測試方法除外〕

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/lerms-and-Conditions/erms-e-document, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its Intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Test Report

號碼(No.): CE/2020/34939 日期(Date): 2020/03/27 頁數(Page): 7 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P, R, CHINA)

多溴聯苯/多溴哪苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

初次測試程序 / First testing process -確認程序 / Confirmation process - · - •▶ Sample / 樣品 Sample pretreatment / 樣品前處理 Screen analysis / 初篩分析 Sample extraction 樣品萃取/ Soxhlet method 索式萃取法 Concentrate/Dilute Extracted solution 萃取液濃縮/稀釋 Filter / 萃取液過濾 GC/MS/ 氣相層析質譜儀

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sos.com/en/lerms-and-Conditions/en/sex-and-Conditions-a



Test Report

號碼(No.): CE/2020/34939

日期(Date): 2020/03/27

頁數(Page): 8 of 11

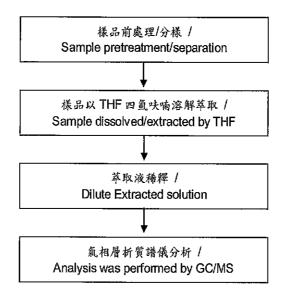
西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD. (臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.) (慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市筵朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P, R, CHINA)

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【测試方法/Test method: IEC 62321-8】



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sas.com/en/terms-and-conditions/terms-



Test Report

號碼(No.): CE/2020/34939

日期(Date): 2020/03/27

頁數(Page): 9 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

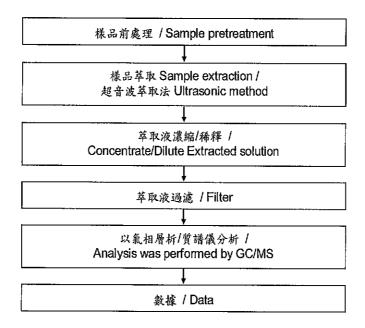
(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU. CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P. R., CHINA)

六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions/ferms-end-Conditions/ferms-



Test Report

號碼(No.): CE/2020/34939

日期(Date): 2020/03/27

頁數(Page): 10 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

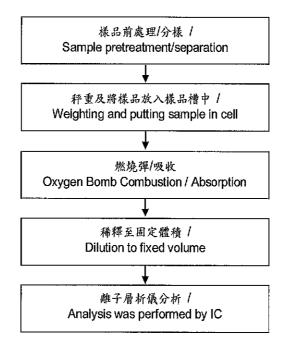
(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

(慶邦電子元器件(泗洪)有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P. R., CHINA)

鹵素分析流程圖 / Analytical flow chart - Halogen



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.scs.com/en/Tarms-and-Conditions/assex and, for electronic formet documents, subject to Terms and Conditions for Electronic Documents at https://www.scs.com/en/Iterms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its Intervention only and within the limits of client's Instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced, except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Test Report

號碼(No.): CE/2020/34939 日期(Date) : 2020/03/27 頁數(Page): 11 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

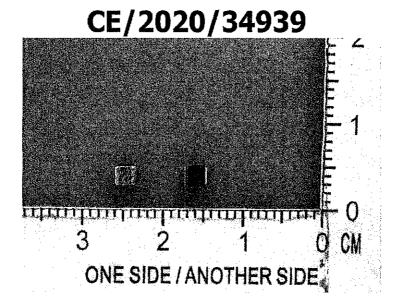
(慶邦電子元器件(泗洪)有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P, R, CHINA)

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *

(The tested sample / part is marked by an arrow if it's shown on the photo.)



** 報告結尾 (End of Report) **

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Fixed Inductors category:

Click to view products by Tai-Tech manufacturer:

Other Similar products are found below:

MLZ1608M6R8WTD25 MLZ1608N6R8LT000 MLZ1608N3R3LTD25 MLZ1608N3R3LTD00 MLZ1608N150LT000 MLZ1608N150WTD05 MLZ1608M3R3WTD25 MLZ1608M3R3WT000 MLZ1608M150WT000 MLZ1608A1R5WT000 MLZ1608N1R5LT000 B82432C1333K000 PCMB053T-1R0MS PCMB053T-1R5MS PCMB104T-1R5MS CR32NP-100KC CR32NP-151KC CR32NP-180KC CR32NP-181KC CR32NP-1R5MC CR32NP-390KC CR32NP-3PMC CR32NP-680KC CR32NP-820KC CR32NP-8R2MC CR43NP-390KC CR43NP-560KC CR43NP-680KC CR54NP-181KC CR54NP-470LC CR54NP-820KC CR54NP-8R5MC ET3542-057 MGDQ4-00004-P MGDU1-00016-P MHL1ECTTP18NJ MHL1JCTTD12NJ PE-51506NL PE-53601NL PE-53630NL PE-53824SNLT PE-62892NL PE-92100NL PG0434.801NLT PG0936.113NLT PM06-2N7 PM06-39NJ HC2LP-R47-R HC2-R47-R HC3-2R2-R