

PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

PCN#24-019**NOTIFICATION DATE: March 6, 2024****MODELS AFFECTED:**

See pages 4-9 for affected models

EXTENT OF CHANGE:

Transition to alternate qualified ceramic substrate materials.

EFFECT OF CHANGE:

- Alternate alpha numeric will appear on device marking.
- No change to **Fit** (Dimensions) or **Form** (Appearance)
- No change to **Function** (Performance) is anticipated based on evaluations.

REASON FOR CHANGE:

- Discontinuation of supplier Pb containing ceramic substrate material that is critical to RF performance.
- Alternate Pb-free material currently under evaluation and qualification to comply with EU RoHS expiration of exemption 7(c)I

NOTE: Our objective is that 'NEW' parts will be equivalent in performance to discontinued parts.**EFFECTIVE DATE OF CHANGE:**

Immediate on exhaustion of existing stock and timing of the decision to not extend the exemption plus the grace period (12-18 months based on previous practice). Last Time Buy may be available for orders to be placed within 6 months from the PCN date and for parts to ship in full within 6 months from the LTB order date. Inventory may be limited. LTB orders are subject to review and acceptance.

QUESTIONS?Please refer to **FAQ** (Frequently Asked Questions) and/or [CONTACT US](#).

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FREQUENTLY ASKED QUESTIONS:

1) Please explain reason for the PCN

As a continuation of previous PCN#21-003, this PCN is issued to notify customers of a change to the materials used in the LTCC substrate.

2) Why are materials being changed?

The ceramics used until now have been discontinued by the manufacturer to comply with the EU RoHS regulation to eliminate Pb (lead) content. The current schedule date for expiration of exemption is July 2024. Additionally, previous practice was to add a 12–18-month grace period after expiration of the exemption.

3) Why was Pb considered RoHS compliant until now?

Since origination in 2006, the EU RoHS allowed for several exemptions, including 7(C)I for Pb in ceramic. This exemption was originally scheduled to expire in 2021. This expiration, however, was suspended in 2020 pending review of appeals by major component manufacturers to allow for time to implement Pb-free product. This is now scheduled to expire in July 2024.

Such applications typically ‘freeze’ the process for 18 to 24 months. See reference below including links to other exemptions under review. https://ec.europa.eu/environment/waste/rohs_eee/adaptation_en.htm

4) What were Mini-Circuits’ actions in preparation for the expiration?

Mini-Circuits selected a wide-ranging group of representative models to evaluate the change in material system. This evaluation has been completed allowing Mini-Circuits to formally transition to the fully compliant material.

5) Will the Pb-free ceramic be a direct equivalent to the existing ceramic?

Evaluations done to date give us confidence in our ability to meet current specifications and we have not seen any changes in models that have been converted to the new material system. Mini-Circuits will continue to do our due diligence in verifying the change in material. We will, however, provide notification of change to Function (Performance) in situations where changes are needed.

6) How is the transition being handled? Can we continue to receive the ‘original’ parts?

Based on reviewing forecasts and historical demand of the models, Mini-Circuits has been able to procure stock of the legacy models as we transition to the new material system. This material will be allocated based on our projections of usage by individual part numbers. Our plan, however, is to only order fully RoHS compliant material based on the scheduled expiration of the exemption.

7) Will customers be able to have a last time buy of the original part numbers during the transition?

Please, contact your Account Manager or PCN@minicircuits.com with the Part Number and LTB quantity required and we will review for feasibility to support

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8) How will we know which version we will be receiving? Will part number be changed?

Our approach is maintaining dual stocks of product with 7(c)I exempt and fully compliant when appropriate. On depletion of the 7(c)I exempt legacy stock, Mini-Circuits will start to ship the new fully compliant version.

NOTE: alternative alpha numeric will appear on device marking with new material system (Mini-Circuits is working on a device marking cross-reference list to publish with this PCN as the information becomes available.)

NOTE: Part number will NOT change

What is your Qualification process?

Mini-Circuits is performing detailed qualifications for key part categories based on function, frequency range and case style. Our experience is that there is no change in quality or reliability based on the prior PCN.

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Affected Models				
BDCN-14-22+	BFCN-732-3+	BPF-A412-1+	HFCN-1300D+	HFCN-1910-4+
BDCN-14-342+	BFCN-7331+	BPF-A580+	HFCN-1320	HFCN-1910D+
BDCN-14-342-2	BFCN-7350+	BPF-A581-1+	HFCN-1320+	HFCN-1910D-2+
BDCN-14-342-3+	BFCN-7350-1+	BPF-F184+	HFCN-1320-1	HFCN-2000
BDCN-15-25	BFCN-7500+	BPF-V300+	HFCN-1320-2	HFCN-2000+
BDCN-15-25+	BFCN-7600-1+	CBP-1060Q+	HFCN-1320-3+	HFCN-2000-1
BDCN-15-25-3	BFCN-7700+	CBP-1060Q-1+	HFCN-1320-4	HFCN-2100
BDCN-15-25-4	BFCN-7900+	CBP-1300A+	HFCN-1320-5+	HFCN-2100+
BDCN-15-25-5	BFCN-7900=	CBP-1300A-1+	HFCN-1320D+	HFCN-2100-1
BDCN-15-25-6F	BFCN-7900-1	CBP-1320Q+	HFCN-15	HFCN-2100-2
BDCN-15-25-7F	BFCN-8000+	CBP-1320Q-1+	HFCN-1500	HFCN-2100-3
BDCN-17-25	BFCN-8000=	CBP-1650Q+	HFCN-1500+	HFCN-2100-5
BDCN-17-25+	BFCN-8000-1+	CBP-1650Q-1+	HFCN-1500-1	HFCN-2100-6
BDCN-17-25-1	BFCN-8000-2	CBP4-1650Q+	HFCN-1500-1R+	HFCN-2100D+
BDCN-17-25-3+	BFCN-8350+	DBFCV-988-1+	HFCN-1500-2	HFCN-2100D-1
BDCN-17-25-4	BFCN-8450+	DLFCV-1000+	HFCN-1500-3	HFCN-2100D-2+
BDCN-17-25-6+	BFCN-8650+	HFCN-1000+	HFCN-1500-4	HFCN-2275
BDCN-17-25-7	BFCN-8650-1+	HFCN-1000-3+	HFCN-1500-5+	HFCN-2275+
BDCN-20-13+	BFCV-2610+	HFCN-1080+	HFCN-1500-7+	HFCN-2275-1
BDCN-20-13-1+	BFCV-2610-1+	HFCN-1080-1+	HFCN-1500D+	HFCN-2275-2+
BFCG-5500+	BFCV-2895+	HFCN-1100+	HFCN-1500D-1	HFCN-2275-3
BFCN-1860+	BFCV-2895-1+	HFCN-1100-1+	HFCN-1600	HFCN-2275-4
BFCN-1860R=	BFCV-3350+	HFCN-1100-2+	HFCN-1600+	HFCN-2275-5+
BFCN-192-2+	BFCV-3350-1+	HFCN-1150+	HFCN-1600+TRH	HFCN-2275-8
BFCN-2500+	BFCV-362-1+	HFCN-12	HFCN-1600-1	HFCN-2275-8F
BFCN-2651-2+	BFCV-3641+	HFCN-1200	HFCN-1600-2+	HFCN-2275-EL
BFCN-3700+	BFCV-4085+	HFCN-1200+	HFCN-1600-3	HFCN-2700
BFCN-3751-2+	BFCV-4085-1+	HFCN-1200-1	HFCN-1600-4+	HFCN-2700+
BFCN-5000-1+	BFCV-5270+	HFCN-1200-13	HFCN-1600D+	HFCN-2700-1
BFCN-5200+	BFCV-5270-1+	HFCN-1200-2	HFCN-1600D-1	HFCN-2700-11+
BFCN-5200-2+	BLGE2-252R+	HFCN-1200-3+	HFCN-1760+	HFCN-2700-12
BFCN-542-1+	BLGE2-542R+	HFCN-1200-4+	HFCN-1810	HFCN-2700-12F
BFCN-5540+	BLGE4-252R+	HFCN-1200-5	HFCN-1810+	HFCN-2700-15
BFCN-5800-1+	BPF-300A-1+	HFCN-1200-6	HFCN-1810-1+	HFCN-2700-2
BFCN-6800-1+	BPF-A328+	HFCN-1200-7	HFCN-1810-4+	HFCN-2700-3
BFCN-7200+	BPF-A328-1+	HFCN-1200-8+	HFCN-1810D+	HFCN-2700-4

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BFCN-7200-3+	BPF-A400+	HFCN-1200D+	HFCN-1910	HFCN-2700-5+
BFCN-732-1+	BPF-A400-1+	HFCN-1200D-1	HFCN-1910+	HFCN-2700-6+
BFCN-732-2+	BPF-A410+	HFCN-1300+	HFCN-1910-1+	HFCN-2700-9
Affected Models				
HFCN-2700A+	HFCN-4400D-1+	HFCN-650-9	HFCN-8400	LFCN-1000+ HW
HFCN-2700AD+	HFCN-4600+	HFCN-650D+	HFCN-8400+	LFCN-1000-1
HFCN-2700AD-2+	HFCN-4600-1+	HFCN-650D-1	HFCN-8400-1	LFCN-1000-10
HFCN-2700AR=	HFCN-4600-2+	HFCN-672+	HFCN-8400D+	LFCN-1000-11
HFCN-2700-EL	HFCN-4600-4+	HFCN-6R3	HFCN-8400D-1+	LFCN-1000-12
HFCN-2700TR5K+	HFCN-4600-7+	HFCN-6R3+	HFCN-880	LFCN-1000-13+
HFCN-3100+	HFCN-4600D+	HFCN-7	HFCN-880+	LFCN-1000-14
HFCN-3100-3+	HFCN-5050+	HFCN-7150+	HFCN-880-1	LFCN-1000-16+
HFCN-3100-4	HFCN-5050-2+	HFCN-7150-1+	HFCN-880-10	LFCN-1000-17
HFCN-3100D+	HFCN-5050-6+	HFCN-7150-11+	HFCN-880-13	LFCN-1000-19
HFCN-3100D-4+	HFCN-5050D+	HFCN-7150-2+	HFCN-880-14	LFCN-1000-1R+
HFCN-3500+	HFCN-5500	HFCN-7150-3+	HFCN-880-17	LFCN-1000-2
HFCN-3500-1+	HFCN-5500+	HFCN-7150-4+	HFCN-880-2	LFCN-1000-20
HFCN-3500-2+	HFCN-5500+ HW	HFCN-7150-7	HFCN-880-3	LFCN-1000-21
HFCN-3500-3+	HFCN-5500-2	HFCN-7150-8	HFCN-880-4	LFCN-1000-22+
HFCN-3500-6+	HFCN-5500-3	HFCN-7150D+	HFCN-880-5	LFCN-1000-25
HFCN-3500D+	HFCN-5500-4+	HFCN-740	HFCN-880-6+	LFCN-1000-25+
HFCN-3800	HFCN-5500D+	HFCN-740+	HFCN-880-7	LFCN-1000-26F
HFCN-3800+	HFCN-5600-1	HFCN-740-1	HFCN-880-8	LFCN-1000-27+
HFCN-3800+ HW	HFCN-6010+	HFCN-740-10	HFCN-880-9	LFCN-1000-28+
HFCN-3800-1	HFCN-6010-1+	HFCN-740-10+	HFCN-880D+	LFCN-1000-3+
HFCN-3800-2	HFCN-6010-2+	HFCN-740-11	HFCN-880D-1	LFCN-1000-4+
HFCN-3800-3+	HFCN-6010-3+	HFCN-740-13	JCHIQ-58-1D	LFCN-1000-5
HFCN-3800-4+	HFCN-6010-4	HFCN-740-14+	JCHIQ-58-1U	LFCN-1000-6+
HFCN-3800-5	HFCN-6010-5+	HFCN-740-15	JCIQ-1525DW-1	LFCN-1000-7+
HFCN-3800-6+	HFCN-6271+	HFCN-740-16+	JCIR-252VH-1+	LFCN-1000-8
HFCN-3800-7+	HFCN-650	HFCN-740-17	JCIR-252VH-2+	LFCN-1000-9
HFCN-3800-9+	HFCN-650+	HFCN-740-2	JCIR-62LH-1+	LFCN-100-1
HFCN-3800D+	HFCN-650-1	HFCN-740-3	JSIQ-1090-1	LFCN-1200
HFCN-3800D-1+	HFCN-650-11	HFCN-740-4	JSIQ-400D-2+	LFCN-1200+
HFCN-3800D-2+	HFCN-650-12+	HFCN-740-5	JSIQ-400M-2+	LFCN-1200-1
HFCN-3800-EL	HFCN-650-14F	HFCN-740-6	JSPHS-132-1+	LFCN-1200-11
HFCN-3800TR5K+	HFCN-650-2	HFCN-740-7+	JSPHS-23+	LFCN-1200-12+
HFCN-4400+	HFCN-650-3	HFCN-740-8	JSPHS-242-1	LFCN-1200-13
HFCN-4400-1+	HFCN-650-4	HFCN-740D+	JSPHS-2484+	LFCN-1200-14
HFCN-4400-2+	HFCN-650-5	HFCN-740D-1+	LDP-1050-252+	LFCN-1200-15+

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HFCN-4400-4+	HFCN-650-6+	HFCN-740D-2+	LDP-1050-252-1+	LFCN-1200-18
HFCN-4400-5+	HFCN-650-7	HFCN-740D-4	LFCN-1000	LFCN-1200-1R+
HFCN-4400D+	HFCN-650-8	HFCN-7971+	LFCN-1000+	LFCN-1200-2
Affected Models				
LFCN-1200-20	LFCN-1400-4	LFCN-1575	LFCN-1800+	LFCN-2250+ HW
LFCN-1200-21+	LFCN-1400-5	LFCN-1575+	LFCN-1800+ HW	LFCN-2250-1
LFCN-1200-22	LFCN-1400-6	LFCN-1575-1	LFCN-1800=	LFCN-2250-10
LFCN-1200-23	LFCN-1400-7	LFCN-1575-15	LFCN-1800-1	LFCN-2250-11
LFCN-1200-24	LFCN-1450	LFCN-1575-15+	LFCN-1800-10	LFCN-2250-12+
LFCN-1200-26+	LFCN-1450+	LFCN-1575-2+	LFCN-1800-11+	LFCN-2250-15+
LFCN-1200-29	LFCN-1450-2	LFCN-1575-3	LFCN-1800-12+	LFCN-2250-16
LFCN-1200-29+	LFCN-1450-3+	LFCN-1575-4	LFCN-1800-13	LFCN-2250-17
LFCN-1200-3	LFCN-1450-4	LFCN-1575-5	LFCN-1800-13+	LFCN-2250-17F
LFCN-1200-4+	LFCN-1450-4+	LFCN-1575-6+	LFCN-1800-15F	LFCN-2250-18+
LFCN-1200-5	LFCN-1450-6F	LFCN-1575-7	LFCN-1800-2	LFCN-2250-20
LFCN-1200-6	LFCN-1450-7F	LFCN-1700	LFCN-1800-3	LFCN-2250-24+
LFCN-1200-7	LFCN-1500	LFCN-1700+	LFCN-1800-4	LFCN-2250-25+
LFCN-1200-8+	LFCN-1500+	LFCN-1700+TRH	LFCN-1800-5+	LFCN-2250-3
LFCN-1200-9	LFCN-1500-1	LFCN-1700-1	LFCN-1800-6+	LFCN-2250-30
LFCN-1200D-1	LFCN-1500-10	LFCN-1700-11	LFCN-1800-7	LFCN-2250-30+
LFCN-1200-T+	LFCN-1500-11	LFCN-1700-12	LFCN-1800-8	LFCN-2250-32
LFCN-1325	LFCN-1500-12	LFCN-1700-13	LFCN-1800-9+	LFCN-2250-4
LFCN-1325+	LFCN-1500-13F	LFCN-1700-15F	LFCN-2000	LFCN-2250-5
LFCN-1325-1	LFCN-1500-14+	LFCN-1700-2	LFCN-2000+	LFCN-2250-6+
LFCN-1325-10	LFCN-1500-15+	LFCN-1700-20	LFCN-2000-1	LFCN-2250-8+
LFCN-1325-10+	LFCN-1500-2	LFCN-1700-20+	LFCN-2000-10	LFCN-2250-9
LFCN-1325-2	LFCN-1500-3	LFCN-1700-22+	LFCN-2000-15	LFCN-2250TR5K+
LFCN-1325-3	LFCN-1500-4	LFCN-1700-23F	LFCN-2000-15+	LFCN-225-1
LFCN-1325-4	LFCN-1500-5+	LFCN-1700-25DVU	LFCN-2000-16	LFCN-225-10
LFCN-1325-5	LFCN-1500-8+	LFCN-1700-25F	LFCN-2000-18	LFCN-225-11+
LFCN-1325-6	LFCN-1500-9+	LFCN-1700-3	LFCN-2000-3	LFCN-225-14
LFCN-1325D+	LFCN-1520-1	LFCN-1700-4	LFCN-2000-4	LFCN-225-14+
LFCN-1325-EL	LFCN-1525	LFCN-1700-5+	LFCN-2000-5	LFCN-225-15EDU
LFCN-1325TR5K	LFCN-1525+	LFCN-1700-6	LFCN-2000-6	LFCN-225-15F
LFCN-1325TR5K+	LFCN-1525-1	LFCN-1700-7	LFCN-2000-7+	LFCN-225-2
LFCN-1400	LFCN-1525-14	LFCN-1700-8	LFCN-2000-8+	LFCN-225-3
LFCN-1400+	LFCN-1525-14+	LFCN-1700-9	LFCN-2000-9	LFCN-225-4
LFCN-1400-1	LFCN-1525-2	LFCN-1700-EL	LFCN-2000D+	LFCN-225-5
LFCN-1400-11	LFCN-1525-4+	LFCN-1700-T+	LFCN-2000D-1+	LFCN-225-6
LFCN-1400-11+	LFCN-1525-5	LFCN-1750	LFCN-225	LFCN-225-7+

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PCN24-019DRAFT Rev.: Orig

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Refer to Procedure: D3-E040

Rev A

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LFCN-1400-13+	LFCN-1525-6	LFCN-1750TR5K	LFCN-225+	LFCN-225-8+
LFCN-1400-2	LFCN-1525-7	LFCN-1750TR5K+	LFCN-2250	LFCN-225-9
LFCN-1400-3	LFCN-1525-8+	LFCN-1800	LFCN-2250+	LFCN-225D
Affected Models				
LFCN-2290+	LFCN-2600-4	LFCN-3000-16	LFCN-400	LFCN-490-8
LFCN-2290-2+	LFCN-2600-5	LFCN-3000-19+	LFCN-400+	LFCN-490-9+
LFCN-2400	LFCN-2600-7	LFCN-3000-23+	LFCN-400-1	LFCN-490D
LFCN-2400+	LFCN-2600-7+	LFCN-3000-25	LFCN-400-10+	LFCN-5000
LFCN-2400-1	LFCN-2600-9	LFCN-3000-25+	LFCN-400-11+	LFCN-5000+
LFCN-2400-11	LFCN-2750	LFCN-3000-27+	LFCN-400-17+	LFCN-5000+ HW
LFCN-2400-11+	LFCN-2750+	LFCN-3000-3+	LFCN-400-18	LFCN-5000-1
LFCN-2400-12+	LFCN-2750-1	LFCN-3000-4	LFCN-400-18+	LFCN-5000-10
LFCN-2400-2+	LFCN-2750-10+	LFCN-3000-5+	LFCN-400-1R+	LFCN-5000-11
LFCN-2400-3	LFCN-2750-11+	LFCN-3000-6+	LFCN-400-2	LFCN-5000-12
LFCN-2400-4	LFCN-2750-18	LFCN-3000-7	LFCN-400-20F	LFCN-5000-13
LFCN-2400-5+	LFCN-2750-18+	LFCN-3000-8+	LFCN-400-22	LFCN-5000-14
LFCN-2400-7+	LFCN-2750-2	LFCN-3000-9	LFCN-400-3	LFCN-5000-2
LFCN-2400-8	LFCN-2750-3+	LFCN-320	LFCN-400-4+	LFCN-5000-21
LFCN-2400D+	LFCN-2750-4	LFCN-320+	LFCN-400-5	LFCN-5000-21+
LFCN-2400D-1+	LFCN-2750-5+	LFCN-320-1	LFCN-400-6+	LFCN-5000-22+
LFCN-2400D-1-1+	LFCN-2750-6	LFCN-320-11	LFCN-400-7	LFCN-5000-3+
LFCN-2400D-2+	LFCN-2750-8+	LFCN-320-12	LFCN-400-8	LFCN-5000-4
LFCN-2490+	LFCN-2750-9	LFCN-320-13	LFCN-400-9	LFCN-5000-5+
LFCN-2500	LFCN-2750TR5K+	LFCN-320-14	LFCN-400D	LFCN-5000-6
LFCN-2500+	LFCN-2850	LFCN-320-16	LFCN-400TR5K+	LFCN-5000-8
LFCN-2500-1	LFCN-2850+	LFCN-320-17	LFCN-4400D-4+	LFCN-5000-9+
LFCN-2500-10	LFCN-2850-2	LFCN-320-1R+	LFCN-490	LFCN-5000D+
LFCN-2500-11	LFCN-2850-3+	LFCN-320-2	LFCN-490+	LFCN-5000D-1
LFCN-2500-15	LFCN-2850-4	LFCN-320-21	LFCN-490+T1	LFCN-5000-EL
LFCN-2500-15+	LFCN-2850-5	LFCN-320-21+	LFCN-490-1	LFCN-530
LFCN-2500-16+	LFCN-2850-7+	LFCN-320-22EDU	LFCN-490-10+	LFCN-530+
LFCN-2500-2	LFCN-2850-8	LFCN-320-22F	LFCN-490-11	LFCN-530-1
LFCN-2500-3+	LFCN-2850-8+	LFCN-320-3	LFCN-490-12	LFCN-530-10FM
LFCN-2500-4+	LFCN-2850-9F	LFCN-320-4	LFCN-490-13+	LFCN-530-11
LFCN-2500-5+	LFCN-3000	LFCN-320-5	LFCN-490-14+	LFCN-530-11+
LFCN-2500-6	LFCN-3000+	LFCN-320-6+	LFCN-490-17	LFCN-530-14DVU
LFCN-2500-7+	LFCN-3000+ HW	LFCN-320-7+	LFCN-490-2+	LFCN-530-14F
LFCN-2500-9+	LFCN-3000-1	LFCN-320-8+	LFCN-490-20	LFCN-530-15+
LFCN-2600	LFCN-3000-10	LFCN-320-9	LFCN-490-20+	LFCN-530-2+
LFCN-2600+	LFCN-3000-11+	LFCN-320D	LFCN-490-3	LFCN-530-3

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LFCN-2600+TRH	LFCN-3000-12+	LFCN-320-NGCAC	LFCN-490-4	LFCN-530-4
LFCN-2600-2	LFCN-3000-14	LFCN-320-NGCQA	LFCN-490-4+	LFCN-530-7
LFCN-2600-3+	LFCN-3000-15	LFCN-3390-1	LFCN-490-5	LFCN-530-9+
Affected Models				
LFCN-530D	LFCN-630-13	LFCN-800+	MACA-63H+	QCN-12AD
LFCN-530TR5K+	LFCN-630-16	LFCN-800+TRH	NBFZ-1690-1+	QCN-12AD+
LFCN-575	LFCN-630-17	LFCN-800-1	NCR2-113+	QCN-12AD-1+
LFCN-575+	LFCN-630-19+	LFCN-800-10	NCR2-113+ HW	QCN-12AD-2
LFCN-575-1	LFCN-630-2	LFCN-800-13	NCR2-113-2+	QCN-12D+
LFCN-575-2	LFCN-630-20	LFCN-800-15	NCR2-113-2-1+	QCN-19
LFCN-575-3	LFCN-630-20+	LFCN-800-15+	NCR2-113-3+	QCN-19+
LFCN-575-4+	LFCN-630-21	LFCN-800-16	NCR2-113-4+	QCN-19+ HW
LFCN-575-5+	LFCN-630-22	LFCN-800-18F	NCR2-123+	QCN-19-1
LFCN-575-7	LFCN-630-3	LFCN-800-2	NCR2-123-2+	QCN-19-10+
LFCN-575-8	LFCN-630-4+	LFCN-800-3+	NCR2-123-3+	QCN-19-4+
LFCN-575-8+	LFCN-630-5	LFCN-800-4	NCR2-123-4F+	QCN-19-5+
LFCN-575D	LFCN-630-6	LFCN-800-5+	NCR2-123-5DVU+	QCN-19-6
LFCN-575-EL	LFCN-630-7+	LFCN-800-6	NCR2-123-5F+	QCN-19-8
LFCN-6000	LFCN-630-9+	LFCN-800-7	NCR2-123-6F+	QCN-19D
LFCN-6000+	LFCN-630D	LFCN-800-8	NCR2-183+	QCN-19D+
LFCN-6000+TRH	LFCN-630TR10K	LFCN-800-9+	NCR2-183-4+	QCN-19D+TRH
LFCN-6000-1	LFCN-630TR10K+	LFCN-800D+	NCS2-33+	QCN-19D-1F
LFCN-6000-10+	LFCN-6700	LFCN-800D-1	NCS2-33=	QCN-19D-2+
LFCN-6000-14+	LFCN-6700+	LFCN-900	NCS2-33-10	QCN-25+
LFCN-6000-15	LFCN-6700+ HW	LFCN-900+	NCS2-33-11+	QCN-25D+
LFCN-6000-16	LFCN-6700-1	LFCN-900-1	NCS2-33-12F	QCN-27+
LFCN-6000-18+	LFCN-6700-10+	LFCN-900-10	NCS2-33-13DVU	QCN-27+ HW
LFCN-6000-2	LFCN-6700-11	LFCN-900-11	NCS2-33-13F	QCN-27-1+
LFCN-6000-21	LFCN-6700-12	LFCN-900-13	NCS2-33-3+	QCN-27-2+
LFCN-6000-21+	LFCN-6700-13	LFCN-900-14+	NCS2-33-5+	QCN-27-6
LFCN-6000-3+	LFCN-6700-13+	LFCN-900-15	NCS2-592+	QCN-27-8+
LFCN-6000-4+	LFCN-6700-15	LFCN-900-16	NCS2-592-1+	QCN-27-8FA+
LFCN-6000-5+	LFCN-6700-2	LFCN-900-18+	NCS2-622+	QCN-27D+
LFCN-6000-6	LFCN-6700-3+	LFCN-900-20	NCS4-272+	QCN-27D-1+
LFCN-6000-7+	LFCN-6700-4	LFCN-900-20+	NCS4-282-1+	QCN-27D-2+
LFCN-6000-8	LFCN-6700-5	LFCN-900-23+	QCN-12	QCN-27R=
LFCN-6000D+	LFCN-6700-6	LFCN-900-3	QCN-12+	QCN-34
LFCN-6000D-1+	LFCN-6700-7	LFCN-900-4	QCN-12A	QCN-34+
LFCN-630	LFCN-6700-8	LFCN-900-5	QCN-12A+	QCN-34-1
LFCN-630+	LFCN-6700-9	LFCN-900-6	QCN-12A-1	QCN-34D

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LFCN-630-1	LFCN-6700D+	LFCN-900-7	QCN-12A-2+	QCN-34D+
LFCN-630-10+	LFCN-6700D-1	LFCN-900-8+	QCN-12A-3+	QCN-39-1+
LFCN-630-11	LFCN-800	LFCN-900-9	QCN-12A-7+	QCN-45+
Affected Models				
QCN-45+ HW	SCN-2-11-11+	SCN-2-19-7	SCN-2-35-1	SCN-2-65-4
QCN-45-1+	SCN-2-11-14	SCN-2-19-7QA	SCN-2-35-10+	SCN-2-9-1
QCN-45-2+	SCN-2-11-16F	SCN-2-22	SCN-2-35-11+	SCN-2-9-1+
QCN-45D+	SCN-2-11-2	SCN-2-22+	SCN-2-35-12	SCQ-4-1650+
QCN-45R=	SCN-2-11-3	SCN-2-22+ HW	SCN-2-35-3+	SCQ-4-1650-1+
QCN-5	SCN-2-11-4	SCN-2-22-13	SCN-2-35-4+	SCQ-4-1650-2+
QCN-5+	SCN-2-11-5+	SCN-2-22-14	SCN-2-35-5+	SCQA-4-162+
QCN-5-2PBF	SCN-2-11-6	SCN-2-22-2	SCN-2-35-6	SCN-2-65-7+
QCN-5-4	SCN-2-11-6+	SCN-2-22-3	SCN-2-35-9+	SCN-2-65-8
QCN-5-4+	SCN-2-11-7+	SCN-2-22-6+	SCN-2-35-EL	SCQA-4-232+
QCN-5-6+	SCN-2-11-8	SCN-2-22-7	SCN-2-45	SPHSA-477-1+
QCN-5-7	SCN-2-11-9+	SCN-2-27	SCN-2-45+	SYIQ-895D+
QCN-5-8	SCN-2-15	SCN-2-27+	SCN-2-45-1	SYIQ-895M+
QCN-5A+	SCN-2-15+	SCN-2-27+ HW	SCN-2-45-10	TCN1-10
QCN-5-T1+	SCN-2-15-1	SCN-2-27+ ZTE	SCN-2-45-11	TCN1-10+
QCN-7+	SCN-2-15-13+	SCN-2-27-1	SCN-2-45-12	TCN1-23
QCN-7+ HW	SCN-2-15-14+	SCN-2-27-10	SCN-2-45-13+	TCN1-23+
QCN-7D+	SCN-2-15-2	SCN-2-27-12	SCN-2-45-15+	TCN1-23-1+
QCN-8+	SCN-2-15-3	SCN-2-27-15	SCN-2-45-16	TCN1-23-3+
QCN-8-3+	SCN-2-15-4	SCN-2-27-16	SCN-2-45-2	TCN2-14+
RKK-4-112+	SCN-2-15-5	SCN-2-27-19F	SCN-2-45-2+	TCN2-26+
RKK-4-112-1+	SCN-2-15-6	SCN-2-27-1C+	SCN-2-45-3	TCN3-11+
RKK-4-23+	SCN-2-15-8	SCN-2-27-2+	SCN-2-45-5	TCN4-13+
RKK-4-252+	SCN-2-15-9	SCN-2-27-20	SCN-2-45-6+	TCN4-162+
RKK-4-252-1	SCN-2-15-EL	SCN-2-27-3	SCN-2-45-7	TCN4-22
RKK-4-442+	SCN-2-19	SCN-2-27-4	SCN-2-45-9	TCN4-22+
SCG-2-382-1+	SCN-2-19+	SCN-2-27-8+	SCN-2-49-1	TCN-4-22-1
SCG-2-422+	SCN-2-19+ HW	SCN-2-27-9	SCN-2-49-1+	TPLX-429223-1+
SCN-2-10+	SCN-2-19-1	SCN-2-27-T1	SCN-2-65	TPLX-F2700+
SCN-2-11	SCN-2-19-13+	SCN-2-27-T1+	SCN-2-65+	
SCN-2-11+	SCN-2-19-2	SCN-2-35	SCN-2-65-1	
SCN-2-11+ HW	SCN-2-19-3+	SCN-2-35+	SCN-2-65-1+	
SCN-2-11-1	SCN-2-19-4	SCN-2-35+ HW	SCN-2-65-2	
SCN-2-11-10+	SCN-2-19-6	SCN-2-35+ ZTE	SCN-2-65-3	