

Micro Commercial Components Corp.

130 W Cochran St, Unit B Simi Valley, CA 93065 Tel: 818- 701-4933 www.mccsemi.com

Certificate of RoHS Compliance

Micro Commercial Components Corp. (MCC) hereby certifies that all devices manufactured by MCC with "P" suffix in part numbering system (-BP/-AP/-TP) are in compliance with the Restriction of Hazardous Substances (RoHS) Directive 2002/95/EC(RoHS 1.0) & 2011/65/EU(RoHS 2.0) & 2015/863/EU(RoHS 3.0) and 'China RoHS'.

There are some packages contain Lead(Pb), which are also compliance with RoHS but apply exemption 7(a)&7(c)-1. The Lead exemption declaration and detail packages contains Lead please refer to page2 and page3.

The following table lists the restricted substances and their respective allowable maximum concentration values:

Restricted Substance	Maximum Concentration Value
Cadmium	≤ 100 ppm
Lead	≤ 1000 ppm
Hexavalent chromium	≤ 1000 ppm
Mercury	≤ 1000 ppm
Polybrominated biphenyl (PBB)	≤ 1000 ppm
Polybrominated diphenyl ether (PBDE)	≤ 1000 ppm
Bis(2-ethylhexyl) phthalate (DEHP)	≤ 1000 ppm
Butyl benzyl phthalate (BBP)	≤ 1000 ppm
Dibutyl phthalate (DBP)	≤ 1000 ppm
Diisobutyl phthalate (DIBP)	≤ 1000 ppm

Sincerely,

Micro Commercial Components

Mrs. 

Daisy Wang

QA Manager

Date: Jan.20,2025

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Declaration of Lead Exemption

Micro commercial components Corp.(MCC) hereby declares that the high Pb content in some of our products(detail products see appendix) is in accordance with the European Union exemption clause ;

1. The GPP chip in the product use Pb in glass powder which is in accordance with the European Union exemption clause 2011/65/EU 7 (c) -1. Lead in glass or ceramic materials (except ceramic media in capacitors) in electrical and electronic components, such as piezoelectric devices or glass/ceramic composite components.

European Commission
RoHS Exemptions Evaluation: Pack 22

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Ex. Req. No.	Requested exemption wording	Applicant/s	Recommendation	Expiry date & scope
Annex III, 7(c)-I	"Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound"	COCIR; SCHOTT AG; Bourns Inc.; Photonis Scientific, Inc.; Optical Fiber Packaging Ltd; The Umbrella Project	7(c)-I: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound 7(c)-V: Electrical and electronic components containing lead in a glass or glass matrix compound that fulfils the following functions: 1) protection and electrical insulation in glass beads of high voltage diodes and glass layers for wafer on the basis of a lead-zinc-borate or a lead-silica-borate glass body,* 2) for hermetic sealings between ceramic, metal and/or glass parts 3) for bonding purposes in a process parameter window for < 500°C combined with a viscosity of 10 ^{13,3} dPas (so called "glass-transition temperature")	Expires on 21 July 2024 for all categories Expires on 21 July 2026 for all categories

2. Solder paste/high temperature solder in the product, which complies with the EU exemption 2011/65/EU 7 (a) for lead in high melting temperature solder (i.e., lead-based alloy solder with more than 85% lead).

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Ex. Req. No.	Requested exemption wording	Applicant/s	Recommendation	Expiry date & scope
Annex III, 6(b)-II	"Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight"	The Umbrella Project	6(b)-II: Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight. 6(b)-IV: Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight in gas valves applied in category 1 EEE (large household appliances)	Expires 18 months after the decision for all categories Expires on 31 December 2024
Annex III, 6(c)	"Copper alloy containing up to 4 % lead by weight"	Bourns Inc.; The Umbrella Project	6(c): Copper alloy containing up to 4 % lead by weight	Expires on 21 July 2026 for all categories
Annex III, 7(a)	"Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)"	Bourns Inc.; The Umbrella Project	Lead in high melting temperature type solders (i.e., lead-based alloys containing 85 % by weight or more lead) (excludes those in the scope of exemption 24) Lead in high melting temperature type solders (i.e., lead-based alloys	For all categories except applications covered by point 24 of this Annex, expires on 21 July 2024. Applies to all categories

* EU RoHS website: https://rohs.exemptions.oeko.info/fileadmin/user_upload/RoHS_Pack_22/RoHS_Pack-22_final_report_amended_February_2022.pdf

On 6 January 2025, the EU submitted to the WTO three notifications concerning the amendment of the high-frequency use exemption clause in Annex III of the EU RoHS Directive. This includes extending the 7 (a) and 7 (c) -1 expiry date until December 31, 2026. The revised proposal is still under review.

MCC R&D team also working on finding replacement, and so far there is no suitable and cheap solution in the market. MCC will continue to look for suitable replacement plan.

Appendix 1 List of packages compliance with 7(a)

Devices Type	Detail Packages list
Axial Plastic Devices	R-1,R-3,R-6,A-405,DO-41,DO-15,DO-201AD,DO-201AE,T-18,LEADED BUTTON,PRESSFIT
SMD Plastic Devices	DO-218AB,DPAK,D2-PAK,LMBS-1,MBS-1,MELF,HSMA,HSMB,HSMC,RA, SRA,SDB-1,SMAE,SMA,SMB,SMC,SOD-123FL,SOD-123HT, SMAL,SMBF,SMG,SMPA,TO-262,TO-262L,SMA-FL,SMAG,SMBG,SMCG, RA BUTTON,SRA BUTTON,TO-277A,TO-277B,SDBL-1,MBLS-1,DO-218AB, SOD-323F,SOD-123HE, SOD-123HL, SOD-123TFL,SOD-123HE1,SOD-323HE, SOD-323HE-B, SOD-323HL, SOT-223-2L, STO-220,TBS, TBSL, TBL , T2PAK, TBN, TBSG TO-277, SOD-323FH,TOLL,DFN3333,DFN3333-8, DFN5060,DFN5060-C, DFN5060-DSC,SME,SMG, LPPAK56E, PDFN3333, PDFN3333-B, PDFN5060-8D
THRO-HOLE Plastic Devices	TO-126,TO-220AB(B),TO-220AC,ITO-220AB,ITO-220AC,TO-220AB(H) , ITO-220,TO-220,TO-220F,TO-247, TO-247-4, TO-247-4L, TO-247AB(E),TO-247AB,TO-247AC, TO-247AD, TO-247Plus,TO-3P,TO-220,BUTTON,TO-18,TO-39,TO-3,TO-66,TO-262,TO-262L, TO-263-7, TO-263-7L, TO-263AC, TO-264P,RB-5,WOM,WOL,BR-6,BR-8D,KBP,KBPL,KBPC,KBPM,KBU,KBJ,KBJL, PB-3,PB-6,PB-10,GBU,GBJ,GBJL,GBL,GBP,GBPC,GBPC-W,GBPC-H, GBPC-L,RS-1, RS-4L,RS-4M,RS-6,RS-6M,DBL-1,TO-251,TO-251S,D3K,RS-15M,RS-20M, RS-25M,MB-35(W),MP-50(W),MT, DB-1,MB-1,KBPR,AK, MT-35A, JB, JA,JC, D3K,TSB-5,AK, GJ, SGBJ, SKBPC75, SKBPC, TOLL-8L-KS
MODULE	FJ,F1,F2,F3,F4,F5,D1,D2,D3,D4,L1,L2,M1,M2,M3,M4,M5,T1,T2,D1N, C1,C2,E1,E2,E1A,E2A,W1,W2,W3,W4,E3,MT-W

Appendix 2 List of packages compliance with 7(c) -1

Devices Type	Detail Packages list
Axial Plastic Devices	R-1,R-3,R-6,A-405,DO-41,DO-15,DO-201AD,DO-201AE
SMD Plastic Devices	DO-218AB, DO-221AC ,LMBS-1,MBS-1, SMA,SMB,SMC,SOD-123FL,SOD-123HT, SMAL,SMBF,SMG,SMPA ,SMA-FL,SMAG,SMBG,SMCG, TO-277,SDBL-1,MBLS-1, SOD-323F,SOD-123HE,SOD-123HE1,SOD-323HE, TBS, TBSL, TBL ,TO-277, SOD-323FH,TOLL, SME,SMG
THRO-HOLE Plastic Devices	KBP,KBPL,KBPC,KBPM,KBU,KBJ,KBJL,GBU,GBJ,GBJL,GBL,GBP,GBPC, GBPC-W,GBPC-H ,DBL-1,D3K,DB-1,MB-1,KBPR, JB, JA, JC,D3K

Notes: Same package may use different type of chip, the above package information is only for reference, if need clear information, please check the product part number.