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Statement on EU RoHS Status of Fixed and Variable Resistors

EU RoHS Directive 2011/65/EU and Amendment 2015/863/EU restricts ten substances and substance groups above a specified threshold at the homogeneous material level. Specific time-limited exemptions may be used as outlined in Annex III and Annex IV of the Directive.

We hereby certify that all fixed and variable resistor series from TT Electronics listed in Appendix A as “Compliant, no exemptions” contain none of these substances above the respective thresholds. Product series listed as “Compliant, exemption xx” contain lead (Pb) and rely on the stated exemption(s) for compliance.

Note that this statement applies only to products with Pb-free termination finish. The way to determine this for fixed resistors is stated under “How to specify Pb-free termination finish”. Resistor products with no Pb-free termination finish option are listed as “Not compliant”. All variable resistors have Pb-free termination finish.

1. TT Electronics suppliers/partners have confirmed the material composition of these products.
2. TT Electronics has implemented processes to confirm and document compliance.
3. The information provided may be based upon actual test data, or on information from our vendors, raw material suppliers or subcontractors.



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Appendix A - EU RoHS Status for Resistive Products

This list includes obsolete products for at least 3 years from EOL date. Older obsolete parts are outside the scope of this declaration but an FMD is available on request.

The list is sorted by Category (Encoder, Potentiometer, Resistor, Trimmer, Turn Counting Dial) and then by Series.

Category	Series / (Way(s) MPN starts)	Cross-index	Example MPN	How to specify Pb-free termination finish	RoHS Status (Pb-free terminations)
Encoder	EN05		EN05HS1212NHH	All PNs are Pb-free finish	Compliant, exemption 6c
Encoder	EN10		EN10HS1212N5HH2	All PNs are Pb-free finish	Compliant, no exemptions
Encoder	EN11		EN11-HSM1AF20	All PNs are Pb-free finish	Compliant, exemption 6b, 6c
Encoder	EN12		EN12-HS11AF20	All PNs are Pb-free finish	Compliant, exemption 6c
Encoder	EN16		EN16-H11AF20	All PNs are Pb-free finish	Compliant, no exemptions
Encoder	EN16AB		EN16ABHB11BF23	All PNs are Pb-free finish	Compliant, no exemptions
Encoder	EN18AB		EN18ABHH22H0H0	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	400 (423, 424, 432, 434, 472, 474, 482, 484)		423600R10KTSL.25	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	404		404R10KTSL1.0	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	405		405200R10KT10L1.02G	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	423 / 424 / 432 / 434 / 472 / 474 / 482 / 484	See 400	423600R10KTSL.25	-	-
Potentiometer	3371		3371R10KTSL.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	3381		3381R10KTSL.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	5100 (5101, 5103)		5101R10KL.50	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	5311		5311R10KT2L.50	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	5400 (5401, 5403)		5401R10KL.50	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	5610 (5611, 5613)		5611R10KT2L.50	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	5710 (5711, 5713)		5711R10KL.50	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	6120 (6121, 6124, 6126, 6127)		6121V1A360L.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	6143-6163 (6143, 6163)		6143R10KTSL1.0	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	6150 (6153)		6153V1A360L.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	6163	See 6143-6163	6163R10KTSL1.0	-	-
Potentiometer	6173		6173R10KTSL.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	6180 (6181, 6184, 6186, 6187, 6188)		6181R10KTSL1.0	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	6273		6273R10KTSL.5	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	6370 (6371, 6373)		6371R10KTSL.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	6670 (6671, 6673)		6671R10KTSL.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	7200 (7216, 7221)		7216R10KT2L.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	7246		7246R10KT2L.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	7274-7276 (7274, 7276)		7274R10KL.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	7280 (7281, 7283, 7284, 7286, 7288)		7281R10KT2L.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	7380 (7381, 7383, 7386, 7388)		7381R10KT2L.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	7480 (7481, 7483, 7486, 7488)		7481R10KT2L.5	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	7600 (7601, 7603)		7601R10KL.15	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	8136		8136R10KL.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	8140 (8141, 8143, 8144, 8146, 8148)		8141R10KTSL.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	9300 (9301, 9303)		9301R10KL.25	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	MODEL-A (A)		AR10KT2L.25	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	MODEL-B (B)		BR10KT1L.5	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	MODEL-C (C)		CR10KT2L.2	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	MODEL-D (D)		DR10KT1L.5	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	MODEL-E (E)		ER10KT1L.5	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P08x (P081, P082, P083, P084)		P081N-161F1CBR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P090		P090L-02F20BR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P09x (P091, P092, P093, P094, P095, P096, P097, P098)		P091B-EA20BR10K	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	P110		P110KV-1F20BR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P120		P120K-F20BR100K	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	P140		P140KV-F20BR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P160		P160KNP-0QC20B100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P166		P166V10Q1CB10K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P170		P170N-FC20BR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P230		P230-1FC20BR100K	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	P231		P231-FC20BR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P232-P233 (P232, P233)		P232-SEC20BR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	P260-P261 (P260, P261)		P260P-D21AF1CB100K	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	P265		P265P11S20NCB10K	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	P270-P271-P272-P278 (P270, P271, P272, P278)		P270-SF22BR100K274	All PNs are Pb-free finish	Compliant, exemption 6c
Potentiometer	PHS11		PHS11-1DBR5KE320	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	PHS11R		PHS11R-1DBR5KE320	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	PHS21		PHS21SB10K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	PS100		PS100-1B1BR100K	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	PSxx (PS15-1/2, PS20-1/2, PS30-1/2, PS45-1/2, PS60-1/2)		PS15-10PC1BR100KD	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	PSxxG (PS45G, PS60G)		PS45G-D15BR100KN	All PNs are Pb-free finish	Compliant, no exemptions
Potentiometer	PSxxL-PSxxM (PS20L/M, PS30L/M, PS45L/M, PS60L/M)		PS20L-R01FBR100KN	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	1900 (DIP-1954 / 1959 / 1987 / 1989 / 1998 / 1999)		DIP-1954-03-1001-B-F	No SD after 19xx	Compliant, no exemptions
Resistor	3810 (3810, 3811, 3812)		3810-10GKI	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	424xxx (6-digit number)	See T40	424371-4M7JI	-	-
Resistor	4500 (4501, 4502, 4503, 4504, 4505, 4506, 4507)		450112-15MFI	All PNs are Pb-free finish	Compliant, exemption 7c-I
Resistor	4530 (4531, 4532, 4533, 4534, 4535, 4536, 4537)		453112-100M/100KJF	All PNs are Pb-free finish	Compliant, exemption 7c-I
Resistor	4700 (SIP-4761 / 4768 / 4769 / 4781 / 4788 / 4789 / 4701 / 4708 / 4709)		SIP-4701-03-1001-F-B	No SD after 47xx	Compliant, no exemptions
Resistor	4800 (4802, 4804, 4805, 4812, 4832)		4812-73K2KI	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	8900 (FP-8987 / 8989 / 8998 / 8999)		FP-8987-03-1001-B-F	No SD after 89xx	Compliant, no exemptions
Resistor	1600-1900 (xx1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)		C1600-10RJI	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	AP160x / 190x (AP1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	AP1600-10RJI	-	-
Resistor	APC (APC0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512)		APC0402AY-1K54WT10	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	ASC (ASC0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512)		ASC0402-22RFT5	All PNs are Pb-free finish	Compliant, exemption 7c-I
Resistor	AW160x / 190x (AW1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	AW1600-10RJI	-	-
Resistor	B160x / 190x (B1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	B1600-10RJI	-	-
Resistor	BCN (BCN104 / 164 / 168)		BCN104AB102I7	All PNs are Pb-free finish	Compliant, exemption 7c-I
Resistor	BPC (BPC3 / 5 / 7 / 10)		BPC10103G	All PNs are Pb-free finish	Compliant, exemption 7c-I
Resistor	BPR (BPR3 / 5 / 7 / 10 / 30 / 50)		BPR10500F	All PNs are Pb-free finish	Compliant, exemption 7c-I

Resistor	C160x / 190x (C1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	C1600-10RII	-	-
Resistor	CAF (CAF2 / 3 / 5 / 7 / 10 / 15 / 20)	See SQP/CAF/CAW	CAF24701JLF	-	-
Resistor	CAR (CAR5 / 6 / 7)		CAR5V-31K6PI (Legacy: CAR5LFV3162PA)	Global PN has no PB suffix, Legacy PN has LF after type	Compliant, no exemptions
Resistor	CAW (CAW2 / 3 / 5 / 7 / 10 / 15 / 20 / 25)	See SQP/CAF/CAW	CAW210R0JLF	-	-
Resistor	CB160x / 190x (CB1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	CB1600-10RII	-	-
Resistor	CCN (CCN7800LF / 7807LF / 7808LF / 7809LF / 7900LF / 7907LF / 7908LF / 7909LF)		CCN-7800LF-01-1001-B-B	LF after 78xx	Compliant, no exemptions
Resistor	CHC (CHC-CB0565xLF / CD0865xLF / CD1065xLF / CC0910xLF / CD0910xLF)		CHC-CB0565ALF-01-51R1-J	PN has LF after Type	Compliant, no exemptions
Resistor	CHC Precision (CHC-CH4ALF / CH8ALF)		CHC-CH4ALF-03-1002-BB	PN has LF after Type	Compliant, no exemptions
Resistor	CP160x / 190x (CP1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	CP1600-10RII	-	-
Resistor	CR (CR0503 / 0603 / 0805 / 1005 / 1206 / 2010 / 2512)		CR0503G-10KFI	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	CSL (CSLS)		CSLSR001FLF	PN has LF suffix	Compliant, no exemptions
Resistor	CSLS		CSLSR001FLF	PN has LF suffix	Compliant, no exemptions
Resistor	CVF (CVF2 / 3 / 5 / 7 / 10)	See SQM/CVF/CVW	CVF24701JLF	-	-
Resistor	CVW (CVW2 / 3 / 5 / 7 / 10)	See SQM/CVF/CVW	CVW210R0JLF	-	-
Resistor	D (D4, D5, D6, D7, D8, D9)		D41C	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	D1206	See PFC-D	D120602-1K0-3K3FB	-	-
Resistor	D23	See DIV23	D23-1K0-3K3FB	-	-
Resistor	D4 / D5	See D	D41C	-	-
Resistor	D55342	See MIL-CHIP	D55342H11B1R00S	-	-
Resistor	D6 / D7 / D8 / D9	See D	D61C	-	-
Resistor	DIP (DIP-1954 / 1959 / 1987 / 1989 / 1998 / 1999)	See 1900	DIP-1954-03-1001-B-F	-	-
Resistor	DIP-U (DIP-U1959 / 1989 / 1999)		DIP-U1959-03-1001-B-S-2	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	DIV23		D23-1K0-3K3FB or SOT-DIV23LF-03-1001-3301-FB	European PN has no PB suffix, USA PN has LF after type	Compliant, no exemptions
Resistor	DPB (DPB-M954LF / M959LF / M987LF / M989LF / M998LF / M999LF)	See M900	DPB-M954LF-02-1002-FB	-	-
Resistor	DPCR		DPCR2512-20KJT18	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	DSC (DSC0603 / 0805 / 1206 / 2010 / 2512)		DSC0603-10KFT5	PN suffix is not PB	Compliant, exemption 7c-I
Resistor	EBW5216		EBW5216PNT-1050JB	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	EBW8518		EBW8518PNT-1050JB	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	EMC (EMC2)		EMC2-33RMI	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	F (F43 / 44)		F43D-467JI	PN suffix is I and not PB	Compliant, exemption 7c-I
Resistor	F500 (F501 through F528)		F501R200J	Pb-free finish is not available	Not compliant
Resistor	FCR (FCR0603 / 0805 / 1206 / 1210 / 2010)		FCR0603-22RII	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	FP (FP-8987 / 8989 / 8998 / 8999)	See 8900	FP-8987-03-1001-B-F	-	-
Resistor	FMW (FMW0309)		FMW0309-47RJ2	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	FP-U (FP-U8989 / U8999)		FP-U8989-05-1001-Q-S-2	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	GBCN (GBCN164)		GBCN164AB472J7	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	GCR (GCR0805 / 1206 / 2010 / 2512)		GCR0805EW-10KFT3	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	GHVC (GHVC1206 / 2010 / 2512)		GHVC1206-1M0FT18	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	GL (GL8xLF / 0xLF)	See SOIC-C	GL0ALF021002BAT	-	-
Resistor	GP (GP50 / 55 / 60)		GP501001001FLFLTR	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	GQ (GQ8xLF / 0xLF / CxLF)	See QSOP-C	GQ0ALF021002BAT	-	-
Resistor	GS (GS4xLF / 7xLF / 8xLF)	See SOIC-C	GS4ALF021002BAT	-	-
Resistor	GUB (GUB-GM7xLF / GM8xLF / GL8xLF / GL0xLF)		GUB-GLOALF-03-2001-B-A	PN has LF after Type	Compliant, exemption 7a
Resistor	GUS-QS001LF	See QS001	GUS-QS001LF-03-56R0-K	-	-
Resistor	GUS-QS009LF	See R2R	GUS-QS009LF-01-1002-G	-	-
Resistor	GUS-QS (GUS-QS0xLF / GUS-QS8xLF / GUS-QSCxLF)	See QSOP	GUS-QS0ALF-01-1002-FB	-	-
Resistor	GUS-SL / GUS-SS (GUS-SL0xLF / GUS-SL8xLF / GUS-SS4xLF / GUS-SS7xLF / GUS-SS8xLF)	See SOIC	GUS-SLOALF-01-1002-F-B	-	-
Resistor	GUS-TS005	See TS005	GUS-TS005-4462	-	-
Resistor	GUS-TS (GUS-TS0xLF / GUS-TS8xLF / GUS-TSCxLF)	See TSSOP	GUS-TS0ALF-01-1002-FB	-	-
Resistor	GWCR (GWCR01005 / 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 1812 / 2010 / 2512)		GWCR01005-10KFT20	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	HDSC (HDSC0805 / 1206 / 2010 / 2512)		HDSC0805-2K0JT3	PN suffix is not PB	Compliant, exemption 7c-I
Resistor	HPDC (HPDC1206 / 2512)		HPDC1206-2K0JT5	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	HPWC (HPWC0805 / 1206 / 2010 / 2512)		HPWC0805-2K0JT3	PN suffix is not PB	Compliant, exemption 7c-I
Resistor	HR (HR0503 / 0603 / 0805 / 1005 / 1206 / 2512)		HR0503G-10GYI	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	HSMW (HSMW0309)		HSMW0309-47RJ2	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	HTC (HTC1210 / 2010 / 2512)		TKC-HTC1206LF-100RF	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	HTCR (HTCR0805 / 1206 / 2010 / 2512)		HTCR0805E-10KFT3	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	HVC (HVC1206 / 2010 / 2512)		HVC1206-4M7FT3	PN suffix is not PB	Compliant, exemption 7c-I
Resistor	HVD (H08 / H12 / H15 / H20 / H30)		H08CD-100M/100KFD	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	HVP (HVP04 / 06 / 08 / 10 / 15 / 20)		HVP04C-100MFB02	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	IBT (IBT1/4 / 1/2)		IBT1/2-20KKI or IBT1/2-203KFLFLTR	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	IGN		IGN-P2525-1234	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	L (L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14)		L0435331FLF	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	L04 / L05 / L06 / L07 / L08 / L09 / L10 / L11 / L12 / L13 / L14	See L	L0435331FLF	-	-
Resistor	LCS (LCS0603 / 0805 / 1206 / 2010 / 2512)		LCS0603-R20DTS1F	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	LHVC (LHVC1206 / 2010 / 2512)		LHVC0603-100KFT5	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	LOB (LOB3 / 5)		LOB3R010FLFLT (Legacy: LOB3-R01JI)	Global PN has LF suffix, Legacy PN has I suffix	Compliant, no exemptions
Resistor	LR (LRF)1206 / 2010 / 2512, LRC-LR(F)1206LF / 2010LF / 2512LF)		LRF1206-R02FW (Legacy: LRC-LRF1206LF-01-R020-F)	Global PN has no PB suffix, Legacy PN has LF after size	Compliant, exemption 7c-I
Resistor	LRC-LR(F) (LRC-LR(F)1206LF / 2010LF / 2512LF)	See LR	LRC-LRF1206LF-01-R020-F	-	-
Resistor	LRC-LRF3WLF	See LRF3W	LRC-LRF3WLF-01-R020-F	-	-
Resistor	LRC-LRZ (LRC-LRZ1206LF / 2010LF / 2512LF)	See LRZ	LRC-LRZ1206LF-R000	-	-
Resistor	LRCs/LVC (LRCs0402 / 0603 / 0805, LVC0402LF / 0603LF / 0805LF)		LRCs0402-R027FT10 (Legacy: LVC-LVC0402LF-R027-F)	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	LRF (LRF1206 / 2010 / 2512)	See LR	LRF1206-R02FW	-	-
Resistor	LRF3W (LRF3W, LRC-LRF3WLF)		LRF3W-R02FW (Legacy: LRC-LRF3WLF-01-R020-F)	Global PN has no PB suffix, Legacy PN has LF after type	Compliant, exemption 7c-I
Resistor	LRF4W		LRF4W-R02FT18	PN has no PB suffix	Compliant, exemption 7c-I
Resistor	LRMA (LRMAT2010 / 2512, LRMAP2512, LRMA0805 / 1206 / 2512, LRMAN0612 / 0815 / 1225)		LRMA0805-R01FT5	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	LRMAH2512		LRMAH2512B-L50FT5	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	LRMAK (LRMAK0612 / 1225)		LRMAK0612-L50FT4	All PN's are Pb-free finish	Compliant, no exemptions

Resistor	LRMAP1216		LRMAP1216A-1L0JT3	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	LRMAP2726		LRMAP2726B-1L0FT14	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	LRMAP2817		LRMAP2817B-R005FT	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	LRMAP3920		LRMAP3920C-R0015FT	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	LRMAP4026		LRMAP4026B-1L0FT1	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	LRMAP5930		LRMAP5930B-R0002FT	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	LRZ (LRZ1206 / 2010 / 2512, LRC-LRZ1206LF / 2010LF / 2512LF)		LRZ1206-R000 (Legacy: LRC-LRZ1206LF-R000)	Global PN has no PB suffix, Legacy PN has LF after type	Compliant, exemption 7c-I
Resistor	LVC (LVC0402LF / 0603LF / 0805LF)	See LRCS/LVC	LVC-LVC0402LF-R027-F	-	-
Resistor	M55342	See MIL-CHIP	M55342H1181R00S	-	-
Resistor	M83401		M8340101K1001FA	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	M900 (DPB-M954 / M959 / M987 / M989 / M998 / M999)		DPB-M954-02-1002-FB	PN has LF after Type	Compliant, no exemptions
Resistor	MAR (MAR40 / 42)		MAR42V-68K1EI	PN suffix is not PB	Compliant, no exemptions
Resistor	MFC (MFC0402 / 0603 / 0805 / 1206 / 2010 / 2512)		MFC0402-R015FT10	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	MFP (MFP1 / 2)		MFP1-4K7FI	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	MFR (MFR3 / 4 / 5)		MFR3-4K7FC	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	MF-S (MF1/2S / MF1S / MF2S / MF3S)		MF1/2S-3K3JI	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	MIL-CHIP (D55342, M55342)		M55342H1181R00S or D55342H0781R00S	Pb-free finish is not available	Not compliant
Resistor	NAS (NAS1/4 / 1/2 / 1 / 1C / 2 / 2B / 2C / 3 / 5 / 7 / 10)		NAS12701FLF (Legacy: NAS1-2K7FI)	Global PN has LF suffix, Legacy PN has I suffix	Compliant, no exemptions
Resistor	NT (NT1/2 / 1/2A81 / 1A70 / 1C / 180 / 2A / 2A69 / 2B79 / 3 / 5 / 574 / 6 / 667 / 7 / 7A55 / 10A56 / 10 / 1078 / 1068)		NT1/21000FLF	PN has LF suffix	Compliant, no exemptions
Resistor	OAR (OAR1 / 3 / 5)		OAR1R010JLF (Legacy: OAR1-R01JI)	Global PN has LF suffix, Legacy PN has no PB suffix	Compliant, no exemptions
Resistor	OARS (OARS1 / 3 / XP)		OARS1R010JLF (Legacy: OARS1-R01JI)	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	OAR-TP (OAR1TP, OAR3TP, OAR5TP)		OAR1TPR010JLF (Legacy: OAR1TP-R01JI)	Global PN has LF suffix, Legacy PN has no PB suffix	Compliant, no exemptions
Resistor	PCF (PCF0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512)		PCF0201R-1K54BI (Legacy: PCF-W0201LF-03-1541-B-P-LT)	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	PCR (PCR0805 / 1005 / 1206)		PCR0805F-10KBI	PN suffix is I and not PB	Compliant, exemption 7c-I
Resistor	PFC (PFC0402LF / 0603LF / 0805LF / 1206LF, W0402 / 0603 / 0805 / 1206, PFC-W0402LF / 0603LF / 0805LF / 1206LF)		PFC0402LFD10018T5 (Legacy: W0402R-01-1K0BI or PFC-W0402LF-01-1001-B)	Global PN has LF after Type, European legacy PN suffix is I and not PB, USA legacy PN has LF after Type	Compliant, no exemptions
Resistor	PFC-D (D1206, PFC-D1206LF)		D120602-1K0-3K3FB or PFC-D1206LF-02-1001-3301-FB	PN has LF after Type	Compliant, no exemptions
Resistor	PFC-D-HT (PFC-D1206HT)		PFC-D1206HT-02-1001-3301-FB	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	PFC-HT (W0402HT / 0603HT / 0805HT / 1206HT, PFC-W0402HT / 0603HT / 0805HT / 1206HT)		W0603HT-01-1K0F or PFC-W0603HT-01-1001-F	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	PFC-UD (PFC-UD0402LF / 0603LF / 0805LF / 1206LF)		PFC-UD1206LF-03-1002-3301-B-S-1	PN has LF after Type	Compliant, no exemptions
Resistor	PR (PR4 / 5)		PR4Y-10KBI	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	PTS (PTS-P0603 / 0805 / 1206)		PTS-P0603LF-1001-B	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	PWC (PWC0603 / 0805 / 1206 / 2010 / 2512, PWC-PWC1206LF / 2010LF / 2512LF)		PWC0603-2K0JI (Legacy: PWC-PWC0603LF-2K00J)	Global PN has no PB suffix, Legacy PN has LF after size	Compliant, exemption 7c-I
Resistor	PWP (PWP04 / 06 / 08 / 10 / 15 / 20)		PWP04-200RJB048	All PNs are Pb-free finish	Compliant, exemption 7c-I
Resistor	QS001 (GUS-QS001LF)		GUS-QS001LF-03-56R0-K	PN has LF after Type	Compliant, no exemptions
Resistor	QSOP (GUS-QS8xLF / QS0xLF / QSCxLF)		GUS-QS0ALF-01-1002-FB	PN has LF after Type	Compliant, no exemptions
Resistor	QSOP-C (GQ8xLF / GQ0xLF / GQCxLF)		GQ0ALF021002BAT	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	R08 / R10 / R15	See RHVD	R08CD-100M/100KFD	-	-
Resistor	R2R (GUS-QS009LF)		GUS-QS009LF-01-1002-G	PN has LF after Type	Compliant, no exemptions
Resistor	RC (RC55 / 65 / 70, (RC-)RC55LF / 65LF / 70LF)		RC55V-31K6BI (Legacy: (RC-)RC55LFV3162BA)	Global PN suffix is I, and not PB or HL, Legacy PN has LF after type	Compliant, no exemptions
Resistor	RCP (RCS5P / 65P / 70P)		RC55PV-31K6BI	PN suffix is I, and not PB or HL	Compliant, no exemptions
Resistor	RHVD (R08 / 10 / 10A / 15 / 15A)		R08CD-100M/100KFD	All PNs are Pb-free finish	Compliant, exemption 7c-I
Resistor	SC3 (SC3, SCW-SC3LF)		SC3-33RFI (Legacy: SCW-SC3LF-33R0F)	Global PN has no PB suffix, Legacy PN has LF after size	Compliant, exemption 7c-I
Resistor	SIP (SIP-4761 / 4768 / 4769 / 4781 / 4788 / 4789 / 4701 / 4708 / 4709)	See 4700	SIP-4701-03-1001-F-B	-	-
Resistor	SIP-U (SIP-U4769 / 4789 / 4709)		SIP-U4709-12-1001-Q-S-2	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	SOIC (GUS-SL0xLF / SL8xLF / SS4xLF / SS7xLF / SS8xLF)		GUS-SL0ALF-01-1002-F-B	PN has LF after Type	Compliant, no exemptions
Resistor	SOIC-C (GL8xLF / GL0xLF / GS4xLF / GS7xLF / GS8xLF)		GL0ALF021002BAT	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	SON (NS4xLF / NS7xLF / NS8xLF / N959LF / N954LF / N989LF / N987LF / N999LF / N998LF)		SON-N954LF-01-1002-FB	PN has LF after Type	Compliant, no exemptions
Resistor	SON-U (SON-UNS4ALF / UNS7ALF / UNS8ALF / UN959LF / UN989LF / UN999LF)		SON-UN959LF-03-1001-B-S-2	PN has LF suffix	Compliant, no exemptions
Resistor	SOT143		SOT143-A002-FB or SOT-SOT143LF-03-A002-FB	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	SOT23		SOT23-3K3-1K0FB or SOT-SOT23LF-03-1001-3301-FB	European PN has no PB suffix, USA PN has LF after type	Compliant, no exemptions
Resistor	SOT-DIV23	See DIV23	SOT-DIV23LF-03-1001-3301-FB	-	-
Resistor	SP20/SP20F		SP20-180RJI or SP2018000JLF	European PN has I suffix, USA PN has LF suffix	Compliant, no exemptions
Resistor	SPH/SPF		SPF-150RJI or SPF1500JLF	European PN has I suffix, USA PN has LF suffix	Compliant, no exemptions
Resistor	SPP (SPP1 / 2 / 3)		SPP1UL4700JLF	PN has LF suffix	Compliant, no exemptions
Resistor	SQM/CVF/CVW (SQM2 / 3 / 5 / 7 / 10 / 10A, CVF2 / 3 / 5 / 7 / 10, CVW2 / 3 / 5 / 7 / 10)		SQM10-4K7JB1 (Legacy: CVF104701JLF)	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	SQP/CAF/CAW (SQP2 / 3 / 5 / 7 / 75 / 10 / 15 / 20, CAF2 / 3 / 5 / 7 / 10 / 15 / 20, CAW2 / 3 / 5 / 7 / 10 / 15 / 20 / 25)		SQP2-4K7JB5 (Legacy: CAF24701JLF)	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	T40 (T43 / 44 / 48 / 424xxx)		T43D-4G7JI or 424371-4M7JI	PN suffix is I and not PB	Compliant, exemption 7c-I
Resistor	TFHP (TFHP1206 / 2512)		TFHP1206D-1K54FT5	All PNs are Pb-free finish	Compliant, no exemptions
Resistor	TJC (TJC0603 / 0612 / 0805 / 1020 / 1206 / 1225 / 2010 / 2512)		TJC0505LF-T3	PN has LF and not PB after size	Compliant, no exemptions

Resistor	TKC-HTC (TKC-HTC1206LF / 2010LF / 2512LF)	See HTC	TKC-HTC1206LF-100RF	-	-
Resistor	TS005		GUS-TS005-4462	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	TSSOP (GUS-TS8xLF / TS0xLF / TSCxLF)		GUS-TS0ALF-01-1002-FB	PN has LF after Type	Compliant, no exemptions
Resistor	ULR (ULR1 / 15S / 15 / 2 / 25 / 2N / 3 / 3N / 5 / B1 / B2 / G1 / G15 / G2 / G25 / G3)		ULR1-R0015FT2 (Legacy: ULRB12512R0015FLFSLT)	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	ULW (ULW2 / 3 / 4 / 5)		ULW2-33RJA25	PN suffix is not PB	Compliant, no exemptions
Resistor	VB160x / VB190x (VB1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	VB1600-10RJII	-	-
Resistor	VC160x / VC190x (VC1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	VC1600-10RJII	-	-
Resistor	VRW (VRW25 / 37 / 68)		VRW25-1M2JI	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	W0402 / W0603 / W0805 / W1206	See PFC	W0402R-01-1K0BI	-	-
Resistor	W0603HT / W0805HT / W1206HT	See PFC-HT	W0603HT-01-1K0F	-	-
Resistor	W20 (W21 / 22 / 23 / 24)		W21-3K3JI	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	W30 (W31)		W31-1K0FA1	PN suffix is not PB	Compliant, no exemptions
Resistor	WA80 (WA82 / 83 / 835 / 84 / 85)		WA82-47RJII	PN suffix is I and not PB	Compliant, no exemptions
Resistor	WA80F		WA84F-15RJII	PN suffix is I and not PB	Compliant, no exemptions
Resistor	WA80Z (WA83Z, WA84Z, WA85Z)		WA83Z-1K5JI	PN suffix is I and not PB	Compliant, no exemptions
Resistor	WCM (WCM0204 / 0207 / 0207HP)		WCM0204-2K49GT3	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WCR (WCR0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512)		WCR0201-10KFI (Legacy: WCR-WCR0201LF-1002-F-P-LT)	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	WDBR (WDBR1/2 / 1 / 2 / 3 / 5 / 7)		WDBR1/2-100RKIW	PN does not have HT after type	Compliant, no exemptions
Resistor	WDBR-HT (WDBR1/2HT / 1HT / 2HT / 3HT / 5HT / 7HT)		WDBR1/2HT-100RKIW	HT indicates Pb-bearing HMP solder is used	Compliant, exemption 7a
Resistor	WDBR-UL (WDBR1UL / 2UL / 3UL / 5UL / 7UL)		WDBR1UL-100RKIW	PN does not have HT after UL	Compliant, no exemptions
Resistor	WDBR-ULHT (WDBR1ULHT / 2ULHT / 3ULHT / 5ULHT / 7ULHT)		WDBR1ULHT-100RKIW	HT indicates Pb-bearing HMP solder is used	Compliant, exemption 7a
Resistor	WH (WHS / 10 / 25 / 50 / 100 / 200 / 300)		WH10-100RJII	PN suffix is I and not PB	Compliant, no exemptions
Resistor	WHPC (WHPC1206 / 2010 / 0612 / 1020 / 1218 / 1225)		WHPC0508X-10KFT5	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	WHS (WHS2 / 3 / 5 / 7 / 7U / 10 / 10N)		WHS10-100RJA02	PN suffix is not PB	Compliant, no exemptions
Resistor	WHS-UL (WHS2UL / 3UL / 5UL)		WHS2UL-100RJA25	PN suffix is not PB	Compliant, no exemptions
Resistor	WIN (WIN(-)T0402LF / 0603LF / 0805LF / 1206LF)		WINT0402LF031001B3 or WIN-T0402LF-03-1001-B	PN has LF after type	Compliant, no exemptions
Resistor	WL4		WL4-R005JI	PN suffix is I and not PB	Compliant, no exemptions
Resistor	WMHP (WMHP20 / 35 / 50 / 100)		WMHP100-10KJ	All PN's are Pb-free finish	Compliant, exemption 7c-I
Resistor	WMO-S (WMO1/2S / 1S / 2S / 3S / 5S / 7S)		WMO1/2S-1K5JA5	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WNCR (WNCR164 / 168)		WNCR164-4K7JI	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WPRT (WPRT10 / 15 / 20 / 30 / 40 / 50)		WPRT10AB-1K2JB440	PN suffix is not PB	Compliant, no exemptions
Resistor	WP-S (WP1S / 2S / 25S / 3S / 4S / 5S / WPP2R)		WP1S-100RJA5	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WPYP (WPYP10 / 8)		WPYP10-100KFB	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WRM (WRM0102 / 0204 / 0207)		WRM0102C-1K0FI	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WRM-HP (WRM0204HP / 0207HP)		WRM0204HPC-2K49FT3	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WRM-HV (WRM0204HV / 0207HV)		WRM0204HV-1M0FT3	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WSHR (WSHR1/2 / 1 / 2 / 3 / 5 / 7)		WSHR1/2-100RKIW	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WSM (WSM2 / 3)		WSM2-1K0FI or WSM21001FLFTR	All PN's are Pb-free finish	Compliant, no exemptions
Resistor	WSMHP (WSMHP20 / 25 / 35)		WSMHP20-10KJ	All PN's are Pb-free finish	Compliant, exemption 7c-I
Trimmer	22 (22A, 22S)		22ACR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	23 (23A, 23B, 23S)		23AR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	25 (25P, 25RX, 25S, 25U, 25V, 25W, 25X)		25PR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	35 (35W)		35WR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	36 (36F, 36K, 36P, 36W)		36FR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	37 (37F, 37P, 37S, 37W)		37FR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	38 (38P, 38W)		38PLABR100KLF30	All PN's are Pb-free finish	Compliant, no exemptions
Trimmer	43 (43W)		43WR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	44 (44G, 44J, 44W)		44GR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	45 (45G, 45J, 47W)		45GER10KLFTR	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	62 (62M)		62BR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	64 (64P, 64W, 64X, 64Y, 64Z)		64PR10KLF	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	66 (66P, 66W, 66X)		66PR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	67 (67P, 67W, 67X, 67Y, 67Z)		67PR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	68 (68P, 68W, 68X)		68PR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	72 (72P, 72R, 72X)		72PR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	78 (78L, 78P, 78S)		78LR10KLF	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	82 (82M, 82P, 82W)		82MR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	83 (83P, 83Y)		83PR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	84 (84P, 84W, 84X)		84PR10KLFTR	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	89 (89B, 89P, 89W, 89X)		89BR10KLF	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	90 (90P)		90PR10KLF	All PN's are Pb-free finish	Compliant, exemption 6c, 34
Trimmer	91 (91A, 91B, 91C, 91E, 91T, 91V, 91W, 91X)		91AR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	93 (93P)		93PR10KLF	All PN's are Pb-free finish	Compliant, exemption 34
Trimmer	B25 (B25P, B25U, B25W, B25S, B25X, B25V)		B25PR10KLF	All PN's are Pb-free finish	Compliant, no exemptions
Turn Counting Dial	2126 (2126, 2126M)		2126	Not applicable	Compliant, no exemptions
Turn Counting Dial	2600 (2601, 2606, 2606M, 2606S, 2607, 2607S)		2601	Not applicable	Compliant, no exemptions
Turn Counting Dial	2640 (2641, 2646, 2646M, 2646S, 2647, 2647S)		2641	Not applicable	Compliant, no exemptions
Turn Counting Dial	2694		2694	Not applicable	Compliant, no exemptions
Turn Counting Dial	2694N		2694N	Not applicable	Compliant, no exemptions
Turn Counting Dial	2696		2696	Not applicable	Compliant, no exemptions
Turn Counting Dial	RB (RB, RBB, RBC, RBD, RBJ)		RB	Not applicable	Compliant, no exemptions