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Statement of California Proposition 65 Substance Status

We hereby certify that all Pb-free fixed and variable resistor series from TT Electronics listed in Appendix A as “Contains no listed substances” do not contain substances listed at the above date by California Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986. Where one or more listed substances are contained, this is also stated in Appendix A.

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”. All variable resistors have Pb-free terminations.

1. TT Electronics suppliers/partners have confirmed the material composition of this product.
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 - California Proposition 65 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	CA Prop 65 Status
Encoder	EN05		EN05HS1212NHH	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Encoder	EN10		EN10HS1212N5HH2	All PN's are Pb-free finish	Contains Ni (internal)
Encoder	EN11		EN11-HSM1AF20	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Encoder	EN12		EN12-HS11AF20	All PN's are Pb-free finish	Contains Pb (internal)
Encoder	EN16		EN16-H11AF20	All PN's are Pb-free finish	Contains Ni (internal)
Encoder	EN16AB		EN16ABHB11BF23	All PN's are Pb-free finish	Contains Ni (internal)
Encoder	EN18AB		EN18ABHH22H0H0	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	400 (423, 424, 432, 434, 472, 474, 482, 484)		423600R10KT5L.25	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	404		404R10KT5L1.0	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	405		405200R10KT10L1.02G	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	423 / 424 / 432 / 434 / 472 / 474 / 482 / 484	See 400	423600R10KT5L.25	-	-
Potentiometer	3371		3371R10KT5L.5	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	3381		3381R10KT5L.5	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	5100 (5101, 5103)		5101R10KL.50	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	5311		5311R10KT2L.50	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	5400 (5401, 5403)		5401R10KL.50	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	5610 (5611, 5613)		5611R10KT2L.50	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	5710 (5711, 5713)		5711R10KL.50	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	6120 (6121, 6124, 6126, 6127)		6121V1A360L.5	All PN's are Pb-free finish	Contains Pb (internal)
Potentiometer	6143-6163 (6143, 6163)		6143R10KT5L1.0	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	6150 (6153)		6153V1A360L.5	All PN's are Pb-free finish	Contains Pb (internal)
Potentiometer	6163	See 6143-6163	6163R10KT5L1.0	-	-
Potentiometer	6173		6173R10KT5L.5	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	6180 (6181, 6184, 6186, 6187, 6188)		6181R10KT5L1.0	All PN's are Pb-free finish	Contains Pb (internal)
Potentiometer	6273		6273R10KT5L.5	All PN's are Pb-free finish	Contains Ni (internal)

Potentiometer	6370 (6371, 6373)		6371R10KT5L.5	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	6670 (6671, 6673)		6671R10KT5L.25	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	7200 (7216, 7221)		7216R10KT2L.25	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	7246		7246R10KT2L.25	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	7274-7276 (7274, 7276)		7274R10KL.25	All PN's are Pb-free finish	Contains Pb (internal)
Potentiometer	7280 (7281, 7283, 7284, 7286, 7288)		7281R10KT2L.25	All PN's are Pb-free finish	Contains Pb (internal)
Potentiometer	7380 (7381, 7383, 7386, 7388)		7381R10KT2L.5	All PN's are Pb-free finish	Contains Pb (internal)
Potentiometer	7480 (7481, 7483, 7486, 7488)		7481R10KT2L.5	All PN's are Pb-free finish	Contains Pb (internal)
Potentiometer	7600 (7601, 7603)		7601R10KL.15	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	8136		8136R10KL.25	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	8140 (8141, 8143, 8144, 8146, 8148)		8141R10KT5L.25	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	9300 (9301, 9303)		9301R10KL.25	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	MODEL-A (A)		AR10KT2L.25	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	MODEL-B (B)		BR10KT1L.5	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	MODEL-C (C)		CR10KT2L.2	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	MODEL-D (D)		DR10KT1L.5	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	MODEL-E (E)		ER10KT1L.5	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	P08x (P081, P082, P083, P084)		P081N-161F1CBR100K	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	P090		P090L-02F20BR100K	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	P09x (P091, P092, P093, P094, P095, P096, P097, P098)		P091B-EA20BR10K	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	P110		P110KV-1F20BR100K	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	P120		P120K-F20BR100K	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	P140		P140KV-F20BR100K	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	P160		P160KNP-0QC20B100K	All PN's are Pb-free finish	Contains Ni (internal)

Potentiometer	P166		P166V10Q1CB10K	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	P170		P170N-FC20BR100K	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	P230		P230-1FC20BR100K	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	P231		P231-FC20BR100K	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	P232-P233 (P232, P233)		P232-SEC20BR100K	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	P260-P261 (P260, P261)		P260P-D21AF1CB100K	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	P265		P265P11S20NCB10K	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	P270-P271-P272-P278 (P270, P271, P272, P278)		P270-SF22BR100K274	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Potentiometer	PHS11		PHS11-1DBR5KE320	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	PHS11R		PHS11R-1DBR5KE320	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	PHS21		PHS21SB10K	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	PS100		PS100-1B1BR100K	All PN's are Pb-free finish	Contains no listed substances
Potentiometer	PSxx (PS15-1/2, PS20-1/2, PS30-1/2, PS45-1/2, PS60-1/2)		PS15-10PC1BR100KD	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	PSxxG (PS45G, PS60G)		PS45G-D1SBR100KN	All PN's are Pb-free finish	Contains Ni (internal)
Potentiometer	PSxxL-PSxxM (PS20L/M, PS30L/M, PS45L/M, PS60L/M)		PS20L-R01FBR100KN	All PN's are Pb-free finish	Contains Ni (internal)
Resistor	1900 (DIP-1954 / 1959 / 1987 / 1989 / 1998 / 1999)		DIP-1954-03-1001 -B-F	No SD after 19xx	Contains no listed substances
Resistor	3810 (3810, 3811, 3812)		3810-10GKI	All PN's are Pb-free finish	Contains no listed substances
Resistor	424xxx (6-digit number)	See T40	424371-4M7JI	-	-
Resistor	4500 (4501, 4502, 4503, 4504, 4505, 4506, 4507)		450112-15MFI	All PN's are Pb-free finish	Contains Pb (internal)
Resistor	4530 (4531, 4532, 4533, 4534, 4535, 4536, 4537)		453112-100M/100KJF	All PN's are Pb-free finish	Contains Pb (internal)
Resistor	4700 (SIP-4761 / 4768 / 4769 / 4781 / 4788 / 4789 / 4701 / 4708 / 4709)		SIP-4701-03-1001-F-B	No SD after 47xx	Contains no listed substances
Resistor	4800 (4802, 4804, 4805, 4812, 4832)		4812-73K2KI	All PN's are Pb-free finish	Contains no listed substances
Resistor	8900 (FP-8987 / 8989 / 8998 / 8999)		FP-8987-03-1001-B-F	No SD after 89xx	Contains no listed substances
Resistor	1600-1900 (xx1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)		C1600-10RJI	All PN's are Pb-free finish	Contains Ni (internal), CoO (external)

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 PN's are Pb-free finish	Contains no listed substances
Resistor	ASC (ASC0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512)		ASC0402-22RFT5	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
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)		BCN104AB102J7	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Resistor	BPC (BPC3 / 5 / 7 / 10)		BPC10103G	All PN's are Pb-free finish	Contains Pb (internal)
Resistor	BPR (BPR3 / 5 / 7 / 10 / 30 / 50)		BPR10500F	All PN's are Pb-free finish	Contains Pb (internal)
Resistor	C160x / 190x (C1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	C1600-10RJI	-	-
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	Contains Ni (internal)
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	CB1600-10RJI	-	-
Resistor	CCN (CCN7800LF / 7807LF / 7808LF / 7809LF / 7900LF / 7907LF / 7908LF / 7909LF)		CCN-7800LF-01-1001-B-B	LF after 78xx	Contains no listed substances
Resistor	CHC (CHC-CB0565xLF / CD0865xLF / CD1065xLF / CC0910xLF / CD0910xLF)		CHC-CB0565ALF-01-51R1-J	PN has LF after Type	Contains no listed substances
Resistor	CHC Precision (CHC-CH4ALF / CH8ALF)		CHC-CH4ALF-03-1002-BB	PN has LF after Type	Contains no listed substances
Resistor	CP160x / 190x (CP1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	CP1600-10RJI	-	-
Resistor	CR (CR0503 / 0603 / 0805 / 1005 / 1206 / 2010 / 2512)		CR0503G-10KFI	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	CSL (CSL5)		CSL5R001FLF	PN has LF suffix	Contains no listed substances
Resistor	CSLS		CSLSR001FLF	PN has LF suffix	Contains no listed substances
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	Contains Pb (internal)

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 PNs are Pb-free finish	Contains no listed substances
Resistor	DIV23		D23-1K0-3K3FB or SOT-DIV23LF-03-1001-3301-FB	European PN has no PB suffix, USA PN has LF after type	Contains no listed substances
Resistor	DPB (DPB-M954LF / M959LF / M987LF / M989LF / M998LF / M999LF)	See M900	DPB-M954LF-02-1002-FB	-	-
Resistor	DPCR		DPCR2512-20KJT18	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	DSC (DSC0603 / 0805 / 1206 / 2010 / 2512)		DSC0603-10KFT5	PN suffix is not PB	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	EBW5216		EBW5216PNT-L050JB	All PNs are Pb-free finish	Contains no listed substances
Resistor	EBW8518		EBW8518PNT-L050JB	All PNs are Pb-free finish	Contains no listed substances
Resistor	EMC (EMC2)		EMC2-33RMI	All PNs are Pb-free finish	Contains no listed substances
Resistor	F (F43 / 44)		F43D-4G7JI	PN suffix is I and not PB	Contains Pb (internal)
Resistor	F500 (F501 through F528)		F501R200J	Pb-free finish is not available	Contains Pb (internal)
Resistor	FCR (FCR0603 / 0805 / 1206 / 1210 / 2010)		FCR0603-22RJ1	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	FP (FP-8987 / 8989 / 8998 / 8999)	See 8900	FP-8987-03-1001-B-F	-	-
Resistor	FMW (FMW0309)		FMW0309-47RJ2	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	FP-U (FP-U8989 / U8999)		FP-U8989-05-1001-Q-S-2	All PNs are Pb-free finish	Contains no listed substances
Resistor	GBCN (GBCN164)		GBCN164AB472J7	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	GCR (GCR0805 / 1206 / 2010 / 2512)		GCR0805EW-10KFT3	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	GHVC (GHVC1206 / 2010 / 2512)		GHVC1206-1M0FT18	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	GL (GL8xLF / 0xLF)	See SOIC-C	GL0ALF021002BAT	-	-
Resistor	GP (GP50 / 55 / 60)		GP501001001FLFLTR	All PNs are Pb-free finish	Contains no listed substances
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-GL0ALF-03-2001-B-A	PN has LF after Type	Contains Pb (internal)
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-SL0ALF-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 PNs are Pb-free finish	Contains Ni (internal)
Resistor	HDSC (HDSC0805 / 1206 / 2010 / 2512)		HDSC0805-2K0JT3	PN suffix is not PB	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	HPDC (HPDC1206 / 2512)		HPDC1206-2K0JT5	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Resistor	HPWC (HPWC0805 / 1206 / 2010 / 2512)		HPWC0805-2K0JT3	PN suffix is not PB	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	HR (HR0503 / 0603 / 0805 / 1005 / 1206 / 2512)		HR0503G-10GYI	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	HSMW (HSMW0309)		HSMW0309-47RJT2	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	HTC (HTC1210 / 2010 / 2512)		TKC-HTC1206LF-100RF	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Resistor	HTCR (HTCR0805 / 1206 / 2010 / 2512)		HTCR0805E-10KFT3	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	HVC (HVC1206 / 2010 / 2512)		HVC1206-4M7FT3	PN suffix is not PB	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	HVD (H08 / H12 / H15 / H20 / H30)		H08CD-100M/100KFD	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	HVP (HVP04 / 06 / 08 / 10 / 15 / 20)		HVP04C-100MFB02	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	IBT (IBT1/4 / 1/2)		IBT1/2-20KKI or IBT1/2-203KLFLTR	All PNs are Pb-free finish	Contains no listed substances
Resistor	IGN		IGN-P2525-1234	All PNs are Pb-free finish	Contains no listed substances
Resistor	L (L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14)		L043S331FLF	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	L04 / L05 / L06 / L07 / L08 / L09 / L10 / L11 / L12 / L13 / L14	See L	L043S331FLF	-	-
Resistor	LCS (LCS0603 / 0805 / 1206 / 2010 / 2512)		LCS0603-R20DT5LF	All PNs are Pb-free finish	Contains Ni (internal)

Resistor	LHVC (LHVC1206 / 2010 / 2512)		LHVC0603-100KFT5	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Resistor	LOB (LOB3 / 5)		LOB3R010FLFLT (Legacy: LOB3-R01JI)	Global PN has LF suffix, Legacy PN has I suffix	Contains Ni (internal)
Resistor	LR (LR(F)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	Contains Pb (internal), Ni (internal)
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 PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
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	Contains Pb (internal), Ni (internal)
Resistor	LRF4W		LRF4W-R02FT18	PN has no PB suffix	Contains Pb (internal), Ni (internal)
Resistor	LRMA (LRMAT2010 / 2512, LRMAP2512, LRMAM0805 / 1206 / 2512, LRMAN0612 / 0815 / 1225)		LRMAM0805-R01FT5	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAH2512		LRMAH2512B-L50FT5	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAK (LRMAK0612 / 1225)		LRMAK0612-L50FT4	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAP1216		LRMAP1216A-1L0JT3	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAP2726		LRMAP2726B-1L0FT14	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAP2817		LRMAP2817B-R005FT	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAP3920		LRMAP3920C-R0015FT	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAP4026		LRMAP4026B-1L0FT1	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	LRMAP5930		LRMAP5930B-R0002FT	All PNs are Pb-free finish	Contains Ni (internal)
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	Contains Pb (internal), Ni (internal)
Resistor	LVC (LVC0402LF / 0603LF / 0805LF)	See LRCS/LVC	LVC-LVC0402LF-R027-F	-	-
Resistor	M55342	See MIL-CHIP	M55342H11B1R00S	-	-
Resistor	M83401		M8340101K1001FA	All PNs are Pb-free finish	Contains no listed substances
Resistor	M900 (DPB-M954 / M959 / M987 / M989 / M998 / M999)		DPB-M954-02-1002-FB	PN has LF after Type	Contains no listed substances
Resistor	MAR (MAR40 / 42)		MAR42V-68K1EI	PN suffix is not PB	Contains Ni (internal)
Resistor	MFC (MFC0402 / 0603 / 0805 / 1206 / 2010 / 2512)		MFC0402-R015FT10	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	MFP (MFP1 / 2)		MFP1-4K7FI	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	MFR (MFR3 / 4 / 5)		MFR3-4K7FC	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	MF-S (MF1/2S / MF1S / MF2S / MF3S)		MF1/2S-3K3JI	All PNs are Pb-free finish	Contains Ni (internal)

Resistor	MIL-CHIP (D55342, M55342)		M55342H11B1R00S or D55342H07B1R00S	Pb-free finish is not available	Contains Pb (internal)
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	Contains Ni (internal)
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	Contains Ni (internal)
Resistor	OAR (OAR1 / 3 / 5)		OAR1R010JLF (Legacy: OAR1-R01JI)	Global PN has LF suffix, Legacy PN has no PB suffix	Contains Ni (internal)
Resistor	OARS (OARS1 / 3 / XP)		OARS1R010JLF (Legacy: OARS1-R01JI)	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	OAR-TP (OAR1TP, OAR3TP, OAR5TP)		OAR1TPR010JLF (Legacy: OAR1TP-R01JI)	Global PN has LF suffix, Legacy PN has no PB suffix	Contains Ni (internal)
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	Contains Ni (internal)
Resistor	PCR (PCR0805 / 1005 / 1206)		PCR0805F-10KBI	PN suffix is I and not PB	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	PFC (PFC0402LF / 0603LF / 0805LF / 1206LF, W0402 / 0603 / 0805 / 1206, PFC-W0402LF / 0603LF / 0805LF / 1206LF)		PFC0402LFD1001BT5 (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	Contains Ni (internal)
Resistor	PFC-D (D1206, PFC-D1206LF)		D120602-1K0-3K3FB or PFC-D1206LF-02-1001-3301-FB	PN has LF after Type	Contains Ni (internal)
Resistor	PFC-D-HT (PFC-D1206HT)		PFC-D1206HT-02-1001-3301-FB	All PNs are Pb-free finish	Contains Ni (internal)
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	Contains Ni (internal)
Resistor	PFC-UD (PFC-UD0402LF / 0603LF / 0805LF / 1206LF)		PFC-UD1206LF-03-1002-3301-B-S-1	PN has LF after Type	Contains Ni (internal)
Resistor	PR (PR4 / 5)		PR4Y-10KBI	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	PTS (PTS-P0603 / 0805 / 1206)		PTS-P0603LF-1001-B	All PNs are Pb-free finish	Contains no listed substances
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	Contains Pb (internal), Ni (internal), CoO (internal)
Resistor	PWP (PWP04 / 06 / 08 / 10 / 15 / 20)		PWP04-200RJB048	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	QS001 (GUS-QS001LF)		GUS-QS001LF-03-56R0-K	PN has LF after Type	Contains no listed substances

Resistor	QSOP (GUS-QS8xLF / QS0xLF / QSCxLF)		GUS-QS0ALF-01-1002-FB	PN has LF after Type	Contains no listed substances
Resistor	QSOP-C (GQ8xLF / GQ0xLF / GQCxLF)		GQ0ALF021002BAT	All PNs are Pb-free finish	Contains no listed substances
Resistor	R08 / R10 / R15	See RHVD	R08CD-100M/100KFD	-	-
Resistor	R2R (GUS-QS009LF)		GUS-QS009LF-01-1002-G	PN has LF after Type	Contains no listed substances
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	Contains Ni (internal)
Resistor	RCP (RC55P / 65P / 70P)		RC55PV-31K6BI	PN suffix is I, and not PB or HL	Contains Ni (internal)
Resistor	RHVD (R08 / 10 / 10A / 15 / 15A)		R08CD-100M/100KFD	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	SC3 (SC3, SCW-SC3LF)		SC3-33RFI (Legacy: SCW-SC3LF-33R0F)	Global PN has no PB suffix, Legacy PN has LF after size	Contains Pb (internal), Ni (internal)
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	Contains no listed substances
Resistor	SOIC (GUS-SL0xLF / SL8xLF / SS4xLF / SS7xLF / SS8xLF)		GUS-SL0ALF-01-1002-F-B	PN has LF after Type	Contains no listed substances
Resistor	SOIC-C (GL8xLF / GL0xLF / GS4xLF / GS7xLF / GS8xLF)		GL0ALF021002BAT	All PNs are Pb-free finish	Contains no listed substances
Resistor	SON (NS4xLF / NS7xLF / NS8xLF / N959LF / N954LF / N989LF / N987LF / N999LF / N998LF)		SON-N954LF-01-1002-FB	PN has LF after Type	Contains no listed substances
Resistor	SON-U (SON-UNS4ALF / UNS7ALF / UNS8ALF / UN959LF / UN989LF / UN999LF)		SON-UN959LF-03-1001-B-S-2	PN has LF suffix	Contains no listed substances
Resistor	SOT143		SOT143-A002-FB or SOT-SOT143LF-03-A002-FB	All PNs are Pb-free finish	Contains no listed substances
Resistor	SOT23		SOT23-3K3-1K0FB or SOT-SOT23LF-03-1001-3301-FB	European PN has no PB suffix, USA PN has LF after type	Contains no listed substances
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	Contains Ni (internal)
Resistor	SPH/SPF		SPF-150RJI or SPF1500JLF	European PN has I suffix, USA PN has LF suffix	Contains Ni (internal)
Resistor	SPP (SPP1 / 2 / 3)		SPP1UL4700JLF	PN has LF suffix	Contains Ni (internal)
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	Contains Ni (internal)

Resistor	SQP/CAF/CAW (SQP2 / 3 / 5 / 7 / 7S / 10 / 15 / 20, CAF2 / 3 / 5 / 7 / 10 / 15 / 20, CAW2 / 3 / 5 / 7 / 10 / 15 / 20 / 25)		SQP2-4K7JB5 (Legacy: CAF24701JLF)	All PN's are Pb-free finish	Contains Ni (internal)
Resistor	T40 (T43 / 44 / 48 / 424xxx)		T43D-4G7JI or 424371-4M7JI	PN suffix is I and not PB	Contains Pb (internal)
Resistor	TFHP (TFHP1206 / 2512)		TFHP1206D-1K54FT5	All PN's are Pb-free finish	Contains Ni (internal)
Resistor	TJC (TJC0603 / 0612 / 0805 / 1020 / 1206 / 1225 / 2010 / 2512)		TJC0505LF-T3	PN has LF and not PB after size	Contains Ni (internal)
Resistor	TKC-HTC (TKC-HTC1206LF / 2010LF / 2512LF)	See HTC	TKC-HTC1206LF-100RF	-	-
Resistor	TS005		GUS-TS005-4462	All PN's are Pb-free finish	Contains no listed substances
Resistor	TSSOP (GUS-TS8xLF / TS0xLF / TSCxLF)		GUS-TS0ALF-01-1002-FB	PN has LF after Type	Contains no listed substances
Resistor	ULR (ULR1 / 15S / 1S / 2 / 25 / 2N / 3 / 3N / 5 / B1 / B2 / G1 / G15 / G2 / G25 / G3)		ULR1-R0015FT2 (Legacy: ULRB12512R0015FLFSLT)	All PN's are Pb-free finish	Contains Ni (internal)
Resistor	ULW (ULW2 / 3 / 4 / 5)		ULW2-33RJA25	PN suffix is not PB	Contains Ni (internal)
Resistor	VB160x / VB190x (VB1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	VB1600-10RJI	-	-
Resistor	VC160x / VC190x (VC1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1905 / 1906 / 1908)	See 1600/1900	VC1600-10RJI	-	-
Resistor	VRW (VRW25 / 37 / 68)		VRW25-1M2JI	All PN's are Pb-free finish	Contains Pb (internal)
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	Contains Ni (external), CoO (external)
Resistor	W30 (W31)		W31-1K0FA1	PN suffix is not PB	Contains Ni (internal)
Resistor	WA80 (WA82 / 83 / 835 / 84 / 85)		WA82-47RJI	PN suffix is I and not PB	Contains Ni (internal)
Resistor	WA80F		WA84F-15RJI	PN suffix is I and not PB	Contains Ni (internal)
Resistor	WA80Z (WA83Z, WA84Z, WA85Z)		WA83Z-1K5JI	PN suffix is I and not PB	Contains Ni (internal)
Resistor	WCM (WCM0204 / 0207 / 0207HP)		WCM0204-2K49GT3	All PN's are Pb-free finish	Contains Ni (internal)
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	Contains Pb (internal), Ni (internal)
Resistor	WDBR (WDBR1/2 / 1 / 2 / 3 / 5 / 7)		WDBR1/2-100RKIW	PN does not have HT after type	Contains no listed substances
Resistor	WDBR-HT (WDBR1/2HT / 1HT / 2HT / 3HT / 5HT / 7HT)		WDBR1/2HT-100RKIW	HT indicates Pb-bearing HMP solder is used	Contains Pb (internal)
Resistor	WDBR-UL (WDBR1UL / 2UL / 3UL / 5UL / 7UL)		WDBR1UL-100RKIW	PN does not have HT after UL	Contains no listed substances

Resistor	WDBR-ULHT (WDBR1ULHT / 2ULHT / 3ULHT / 5ULHT / 7ULHT)		WDBR1ULHT-100RKIW	HT indicates Pb-bearing HMP solder is used	Contains Pb (internal)
Resistor	WH (WH5 / 10 / 25 / 50 / 100 / 200 / 300)		WH10-100RJI	PN suffix is I and not PB	Contains Ni (internal)
Resistor	WHPC (WHPC1206 / 2010 / 0612 / 1020 / 1218 / 1225)		WHPC0508X-10KFT5	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Resistor	WHS (WHS2 / 3 / 5 / 7 / 7U / 10 / 10N)		WHS10-100RJA02	PN suffix is not PB	Contains Ni (internal)
Resistor	WHS-UL (WHS2UL / 3UL / 5UL)		WHS2UL-100RJA25	PN suffix is not PB	Contains Ni (internal)
Resistor	WIN (WIN(-)T0402LF / 0603LF / 0805LF / 1206LF)		WINT0402LF031001B3 or WIN-T0402LF-03-1001-B	PN has LF after type	Contains Ni (internal)
Resistor	WL4		WL4-R005JI	PN suffix is I and not PB	Contains no listed substances
Resistor	WMHP (WMHP20 / 35 / 50 / 100)		WMHP100-10KJ	All PNs are Pb-free finish	Contains Pb (internal)
Resistor	WMO-S (WMO1/2S / 1S / 2S / 3S / 5S / 7S)		WMO1/2S-1K5JA5	All PNs are Pb-free finish	Contains no listed substances
Resistor	WNCR (WNCR164 / 168)		WNCR164-4K7JI	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	WPRT (WPRT10 / 15 / 20 / 30 / 40 / 50)		WPRT10AB-1K2JB440	PN suffix is not PB	Contains Ni (internal)
Resistor	WP-S (WP1S / 2S / 25S / 3S / 4S / 5S / WPP2R)		WP1S-100RJA5	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	WPYP (WPYP10 / 8)		WPYP10-100KFB	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	WRM (WRM0102 / 0204 / 0207)		WRM0102C-1K0FI	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	WRM-HP (WRM0204HP / 0207HP)		WRM0204HPC-2K49FT3	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	WRM-HV (WRM0204HV / 0207HV)		WRM0204HV-1M0FT3	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	WSHR (WSHR1/2 / 1 / 2 / 3 / 5 / 7)		WSHR1/2-100RKIW	All PNs are Pb-free finish	Contains no listed substances
Resistor	WSM (WSM2 / 3)		WSM2-1K0FI or WSM21001FLFTR	All PNs are Pb-free finish	Contains Ni (internal)
Resistor	WSMHP (WSMHP20 / 25 / 35)		WSMHP20-10KJ	All PNs are Pb-free finish	Contains Pb (internal)
Trimmer	22 (22A, 22S)		22ACR10KLFTR	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	23 (23A, 23B, 23S)		23AR10KLFTR	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	25 (25P, 25RX, 25S, 25U, 25V, 25W, 25X)		25PR10KLFTR	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	35 (35W)		35WR10KLFTR	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	36 (36F, 36K, 36P, 36W)		36FR10KLF	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	37 (37F, 37P, 37S, 37W)		37FR10KLF	All PNs are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	38 (38P, 38W)		38PLABR100KLF30	All PNs are Pb-free finish	Contains no listed substances

Trimmer	43 (43W)		43WR10KLFTR	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	44 (44G, 44J, 44W)		44GR10KLFT7	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	45 (45G, 45J, 47W)		45GER10KLFT7	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	62 (62M)		62BR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	64 (64P, 64W, 64X, 64Y, 64Z)		64PR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	66 (66P, 66W, 66X)		66PR10KLFTR	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	67 (67P, 67W, 67X, 67Y, 67Z)		67PR10KLFTR	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	68 (68P, 68W, 68X)		68PR10KLFTR	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	72 (72P, 72R, 72X)		72PR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	78 (78L, 78P, 78S)		78LR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	82 (82M, 82P, 82W)		82MR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	83 (83P, 83Y)		83PR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	84 (84P, 84W, 84X)		84PR10KLFTR	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	89 (89B, 89P, 89W, 89X)		89BR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	90 (90P)		90PR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	91 (91A, 91B, 91C, 91E, 91T, 91V, 91W, 91X)		91AR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	93 (93P)		93PR10KLF	All PN's are Pb-free finish	Contains Pb (internal), Ni (internal)
Trimmer	B25 (B25P, B25U, B25W, B25S, B25X, B25V)		B25PR10KLF	All PN's are Pb-free finish	Contains Ni (internal)
Turn Counting Dial	2126 (2126, 2126M)		2126	Not applicable	Contains no listed substances
Turn Counting Dial	2600 (2601, 2606, 2606M, 2606S, 2607, 2607S)		2601	Not applicable	Contains Ni (internal)
Turn Counting Dial	2640 (2641, 2646, 2646M, 2646S, 2647, 2647S)		2641	Not applicable	Contains Ni (internal)
Turn Counting Dial	2694		2694	Not applicable	Contains Ni (internal)
Turn Counting Dial	2694N		2694N	Not applicable	Contains Ni (internal)

Turn Counting Dial	2696		2696	Not applicable	Contains no listed substances
Turn Counting Dial	RB (RB, RBB, RBC, RBD, RBJ)		RB	Not applicable	Contains no listed substances