



NAFTA Ordering Information

ORDERING CODE INDICATING RESISTOR TYPE AND PACKAGING						
TYPE	TOL. (%)	RESISTANCE RANGE	12NC	NAFTA PART NUMBER ⁽¹⁾	TAPING (mm)	SPQ (units)
MMU 0102 PROFESSIONAL						
MMU 0102	-	jumper	2312 165 90001	9B08053A0R00JC00T	8	3000; tape & reel
			2312 175 90001	9B08053A0R00JC003	8	10000; tape & reel
MMU 0102-50	±5	0.22 to 0.91 Ω	2312 165 3....	9B08053AXXXXJC00T	8	3000; tape & reel
			2312 175 3....	9B08053AXXXXJC003	8	10000; tape & reel
	±2	1 to 9.1Ω	2312 165 2....	9B08053AXXXXGC00T	8	3000; tape & reel
			2312 175 2....	9B08053AXXXXGC003	8	10000; tape & reel
	±1	10 Ω to 2.21 MΩ	2312 165 1....	9B08053AXXXXFC00T	8	3000; tape & reel
			2312 175 1....	9B08053AXXXXFC003	8	10000; tape & reel
	±0.5	47 Ω to 221 kΩ	2312 165 5....	9B08053AXXXXDC00T	8	3000; tape & reel
			2312 175 5....	9B08053AXXXXDC003	8	10000; tape & reel
MMU 0102-25	±1	10 Ω to 221 kΩ	2312 166 1....	9B08053AXXXXFE00T	8	3000; tape & reel
			2312 176 1....	9B08053AXXXXFE003	8	10000; tape & reel
	±0.50	47 Ω to 221 kΩ	2312 166 5....	9B08053AXXXXDE00T	8	3000; tape & reel
			2312 176 5....	9B08053AXXXXDE003	8	10000; tape & reel
MMA 0204 PROFESSIONAL						
MMA 0204	-	jumper	2312 155 90001	9B14064A0R00JC00T	8	3000; tape & reel
			2312 145 90001	9B14064A0R00JC003	8	10000; tape & reel
MMA 0204-50	±5	0.22 to 0.91 Ω	2312 155 3....	9B14064AXXXXJC00T	8	3000; tape & reel
			2312 145 3....	9B14064AXXXXJC003	8	10000; tape & reel
	±1	1 Ω to 10 MΩ	2312 155 1....	9B14064AXXXXFC00T	8	3000; tape & reel
			2312 145 1....	9B14064AXXXXFC003	8	10000; tape & reel
	±0.5	10 Ω to 475 kΩ	2312 155 5....	9B14064AXXXXDC00T	8	3000; tape & reel
			2312 145 5....	9B14064AXXXXDC003	8	10000; tape & reel
MMA 0204-25	±1	10 Ω to 475 kΩ	2312 156 1....	9B14064AXXXXFE00T	8	3000; tape & reel
			2312 146 1....	9B14064AXXXXFE003	8	10000; tape & reel
	±0.5	10 Ω to 475 kΩ	2312 156 5....	9B14064AXXXXDE00T	8	3000; tape & reel
			2312 146 5....	9B14064AXXXXDE003	8	10000; tape & reel
MMB 0207 PROFESSIONAL						
MMB 0207	-	jumper	2312 195 90001	9B02077A0R00JD002	12	2000; tape & reel
			2312 185 90001	9B02077A0R00JD007	12	7000; tape & reel
MMB 0207-00	±5	0.1 to 0.91 Ω	2312 195 3....	9B02077AXXXXJC002	12	2000; tape & reel
			2312 185 3....	9B02077AXXXXJC007	12	7000; tape & reel
MMB 0207-50	±2	0.22 to 0.91 Ω	2312 195 2....	9B02077AXXXXGC002	12	2000; tape & reel
			2312 185 2....	9B02077AXXXXGC007	12	7000; tape & reel
MMB 0207-50	±1	1 Ω to 8.2 MΩ	2312 195 1....	9B02077AXXXXFC002	12	2000; tape & reel
			2312 185 1....	9B02077AXXXXFC007	12	7000; tape & reel
MMB 0207-25	±0.5	10 W to 1 MW	2312 196 5....	9B02077AXXXXDE002	12	2000; tape & reel
			2312 186 5....	9B02077AXXXXDE007	12	7000; tape & reel

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MMU 0102 PRECISION						
MMU 0102-25	±0.25	100 Ω to 221 kΩ	2312 171 6....	9B08053AXXXXCE001	8	1000; tape & reel
			2312 166 6....	9B08053AXXXXCE00T	8	3000; tape & reel
			2312 176 6....	9B08053AXXXXCE003	8	10000; tape & reel
	±0.1	100 Ω to 100 kΩ	2312 171 7....	9B08053AXXXXBE001	8	1000; tape & reel
			2312 166 7....	9B08053AXXXXBE00T	8	3000; tape & reel
			2312 176 7....	9B08053AXXXXBE003	8	10000; tape & reel
MMU 0102-15	±0.5	100 Ω to 100 kΩ	2312 172 5....	9B08053AXXXXDF001	8	1000; tape & reel
			2312 167 5....	9B08053AXXXXDF00T	8	3000; tape & reel
			2312 177 5....	9B08053AXXXXDF003	8	10000; tape & reel
	±0.25	100 Ω to 100 kΩ	2312 172 6....	9B08053AXXXXCF001	8	1000; tape & reel
			2312 167 6....	9B08053AXXXXCF00T	8	3000; tape & reel
			2312 177 6....	9B08053AXXXXCF003	8	10000; tape & reel
	±0.1	100 Ω to 100 kΩ	2312 172 7....	9B08053AXXXXBF001	8	1000; tape & reel
			2312 167 7....	9B08053AXXXXBF00T	8	3000; tape & reel
			2312 177 7....	9B08053AXXXXBF003	8	10000; tape & reel
MMA 0204 PRECISION						
MMA 0204-25	±0.25	22 Ω to 332 kΩ	2312 141 6....	9B14064AXXXXCE001	8	1000; tape & reel
			2312 156 6....	9B14064AXXXXCE00T	8	3000; tape & reel
			2312 146 6....	9B14064AXXXXCE003	8	10000; tape & reel
	±0.1	43 Ω to 332 kΩ	2312 141 7....	9B14064AXXXXBE001	8	1000; tape & reel
			2312 156 7....	9B14064AXXXXBE00T	8	3000; tape & reel
			2312 146 7....	9B14064AXXXXBE003	8	10000; tape & reel
MMA 0204-15	±0.5	10 Ω to 221 kΩ	2312 142 5....	9B14064AXXXXDF001	8	1000; tape & reel
			2312 157 5....	9B14064AXXXXDF00T	8	3000; tape & reel
			2312 147 5....	9B14064AXXXXDF003	8	10000; tape & reel
	±0.25	22 Ω to 221 kΩ	2312 142 6....	9B14064AXXXXCF001	8	1000; tape & reel
			2312 157 6....	9B14064AXXXXCF00T	8	3000; tape & reel
			2312 147 6....	9B14064AXXXXCF003	8	10000; tape & reel
	±0.1	43 Ω to 221 kΩ	2312 142 7....	9B14064AXXXXBF001	8	1000; tape & reel
			2312 157 7....	9B14064AXXXXBF00T	8	3000; tape & reel
			2312 147 7....	9B14064AXXXXBF003	8	10000; tape & reel
MMB 0207 PRECISION						
MMB 0207-25	±0.25	15 Ω to 1 MΩ	2312 181 6....	9B02077AXXXXCE001	12	1000; tape & reel
			2312 196 6....	9B02077AXXXXCE002	12	2000; tape & reel
			2312 186 6....	9B02077AXXXXCE007	12	7000; tape & reel
	±0.1	33 Ω to 1 MΩ	2312 181 7....	9B02077AXXXXBE001	12	1000; tape & reel
			2312 196 7....	9B02077AXXXXBE002	12	2000; tape & reel
			2312 186 7....	9B02077AXXXXBE007	12	7000; tape & reel
MMB 0207-15	±0.1	33 W to 1 MW	2312 182 7....	9B02077AXXXXBF001	12	1000; tape & reel
			2312 197 7....	9B02077AXXXXBF002	12	2000; tape & reel
			2312 187 7....	9B02077AXXXXBF007	12	7000; tape & reel



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TYPE	TOL. (%)	RESISTANCE RANGE	12NC	NAFTA PART NUMBER ⁽¹⁾	TAPING (mm)	SPQ (units)
MBA 0204 PROFESSIONAL						
MBA 0204	-	jumper	2312 900 90001	A0204C0R000J1A	52	1000; ammopack
			2312 905 90001	A0204C0R000J5A	52	5000; ammopack
			2312 805 90001	A0204C0R000J5T	52	5000; tape & reel
MBA 0204-50	±5	0.22 to 0.91 Ω	2312 900 3....	A0204CXXXXXJ1A	52	1000; ammopack
			2312 905 3....	A0204CXXXXXJ5A	52	5000; ammopack
			2312 805 3....	A0204CXXXXXJ5T	52	5000; tape & reel
	±1	1 Ω to 10 MΩ	2312 900 1....	A0204CXXXXXF1A	52	1000; ammopack
			2312 905 1....	A0204CXXXXXF5A	52	5000; ammopack
			2312 805 1....	A0204CXXXXXF5T	52	5000; tape & reel
	±0.5	10 Ω to 475 kΩ	2312 900 5....	A0204CXXXXXD1A	52	1000; ammopack
			2312 905 5....	A0204CXXXXXD5A	52	5000; ammopack
			2312 805 5....	A0204CXXXXXD5T	52	5000; tape & reel
MBA 0204-25	±1	10 Ω to 475 kΩ	2312 901 1....	A0204EXXXXXF1A	52	1000; ammopack
			2312 906 1....	A0204EXXXXXF5A	52	5000; ammopack
			2312 806 1....	A0204EXXXXXF5T	52	5000; tape & reel
	±0.5	10 Ω to 475 kΩ	2312 901 5....	A0204EXXXXXD1A	52	1000; ammopack
			2312 906 5....	A0204EXXXXXD5A	52	5000; ammopack
			2312 806 5....	A0204EXXXXXD5T	52	5000; tape & reel
MBB 0207 PROFESSIONAL						
MBB 0207	-	jumper	2312 910 90001	B0207C0R000J1A	52	1000; ammopack
			2312 915 90001	B0207C0R000J5A	52	5000; ammopack
			2312 815 90001	B0207C0R000J5T	52	5000; tape & reel
MBB 0207-50	±5	0.22 to 0.91 Ω 11 to 22 MΩ	2312 910 3....	B0207CXXXXXJ1A	52	1000; ammopack
			2312 915 3....	B0207CXXXXXJ5A	52	5000; ammopack
			2312 815 3....	B0207CXXXXXJ5T	52	5000; tape & reel
	±1	1 Ω to 10 MΩ	2312 910 1....	B0207CXXXXXF1A	52	1000; ammopack
			2312 915 1....	B0207CXXXXXF5A	52	5000; ammopack
			2312 815 1....	B0207CXXXXXF5T	52	5000; tape & reel
	±0.5	10 Ω to 475 kΩ	2312 910 5....	B0207CXXXXXD1A	52	1000; ammopack
			2312 915 5....	B0207CXXXXXD5A	52	5000; ammopack
			2312 815 5....	B0207CXXXXXD5T	52	5000; tape & reel
MBB 0207-25	±1	10 Ω to 475 kΩ	2312 911 1....	B0207EXXXXXF1A	52	1000; ammopack
			2312 916 1....	B0207EXXXXXF5A	52	5000; ammopack
			2312 816 1....	B0207EXXXXXF5T	52	5000; tape & reel
	±0.5	10 Ω to 475 kΩ	2312 911 5....	B0207EXXXXXD1A	52	1000; ammopack
			2312 916 5....	B0207EXXXXXD5A	52	5000; ammopack
			2312 816 5....	B0207EXXXXXD5T	52	5000; tape & reel

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MBE 0414 PROFESSIONAL						
MBE 0414-50	±5	0.22 to 0.91 Ω	2312 920 3....	E0414CXXXXXJ1A	63	1000; ammpack
			2312 825 3....	E0414CXXXXXJ25T	63	2500; tape & reel
	±1	1 Ω to 22 MΩ	2312 920 1....	E0414CXXXXXF1A	63	1000; ammpack
			2312 825 1....	E0414CXXXXXF25T	63	2500; tape & reel
	±0.5	10 Ω to 2.4 MΩ	2312 920 5....	E0414CXXXXXD1A	63	1000; ammpack
			2312 825 5....	E0414CXXXXXD25T	63	2500; tape & reel
MBE 0414-25	±1	10 Ω to 2.4 MΩ	2312 921 1....	E0414EXXXXXF1A	63	1000; ammpack
			2312 826 1....	E0414EXXXXXF25T	63	2500; tape & reel
	±0.5	10 Ω to 2.4 MΩ	2312 921 5....	E0414EXXXXXD1A	63	1000; ammpack
			2312 826 5....	E0414EXXXXXD25T	63	2500; tape & reel
MBA 0204 PRECISION						
MBA 0204-25	±0.25	22 Ω to 332 kΩ	2312 901 6....	A0204EXXXXXC1A	52	1000; ammpack
			2312 906 6....	A0204EXXXXXC5A	52	5000; ammpack
			2312 806 6....	A0204EXXXXXC5T	52	5000; tape & reel
	±0.1	43 Ω to 332 kΩ	2312 901 7....	A0204EXXXXXB1A	52	1000; ammpack
			2312 906 7....	A0204EXXXXXB5A	52	5000; ammpack
			2312 806 7....	A0204EXXXXXB5T	52	5000; tape & reel
MBA 0204-15	±0.25	22 Ω to 221 kΩ	2312 902 6....	A0204FXXXXXC1A	52	1000; ammpack
			2312 907 6....	A0204FXXXXXC5A	52	5000; ammpack
			2312 807 6....	A0204FXXXXXC5T	52	5000; tape & reel
	±0.1	43 Ω to 221 kΩ	2312 902 7....	A0204FXXXXXB1A	52	1000; ammpack
			2312 907 7....	A0204FXXXXXB5A	52	5000; ammpack
			2312 807 7....	A0204FXXXXXB5T	52	5000; tape & reel
MBB 0207 PRECISION						
MBB 0207-25	±0.25	10 Ω to 1 MΩ	2312 911 6....	B0207EXXXXXC1A	52	1000; ammpack
			2312 916 6....	B0207EXXXXXC5A	52	5000; ammpack
			2312 816 6....	B0207EXXXXXC5T	52	5000; tape & reel
	±0.1	40.2 Ω to 1 MΩ	2312 911 7....	B0207EXXXXXB1A	52	1000; ammpack
			2312 916 7....	B0207EXXXXXB5A	52	5000; ammpack
			2312 816 7....	B0207EXXXXXB5T	52	5000; tape & reel
MBB 0207-15	±0.25	10 Ω to 562 kΩ	2312 912 6....	B0207FXXXXXC1A	52	1000; ammpack
			2312 917 6....	B0207FXXXXXC5A	52	5000; ammpack
			2312 817 6....	B0207FXXXXXC5T	52	5000; tape & reel
	±0.1	40.2 Ω to 562 kΩ	2312 912 7....	B0207FXXXXXB1A	52	1000; ammpack
			2312 917 7....	B0207FXXXXXB5A	52	5000; ammpack
			2312 817 7....	B0207FXXXXXB5T	52	5000; tape & reel
MBE 0414 PRECISION						
MBE 0414-25	±0.25	22.2 Ω to 1.5 MΩ	2312 921 6....	E0414EXXXXXC1A	63	1000; ammpack
			2312 826 6....	E0414EXXXXXC25T	63	2500; tape & reel
	±0.1	43 Ω to 1 MΩ	2312 921 7....	E0414EXXXXXB1A	63	1000; ammpack
			2312 826 7....	E0414EXXXXXB25T	63	2500; tape & reel



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MBE 0414-15	±0.25	22 Ω to 1 MΩ	2312 922 6....	E0414FXXXXXC1A	63	1000; ammpack
			2312 827 6....	E0414FXXXXXC25T	63	2500; tape & reel
	±0.1	43 Ω to 1 MΩ	2312 922 7....	E0414FXXXXXB1A	63	1000; ammpack
			2312 827 7....	E0414FXXXXXB25T	63	2500; tape & reel
UXA 0204 ULTRA PRECISION						
UXA 0204-10	±0.25	22 Ω to 221 kΩ	2312 662 2....	UXABXXXXXC1A	52	1000; ammpack
			2312 462 2....	UXABXXXXXC1T	52	1000; tape & reel
	±0.1	43 Ω to 221 kΩ	2312 662 3....	UXABXXXXXB1A	52	1000; ammpack
			2312 462 3....	UXABXXXXXB1T	52	1000; tape & reel
	±0.05	100 Ω to 180 kΩ	2312 662 4....	UXABXXXXXA1A	52	1000; ammpack
			2312 462 4....	UXABXXXXXA1T	52	1000; tape & reel
	±0.01	200 Ω to 150 kΩ	2312 662 7....	UXABXXXXXT1A	52	1000; ammpack
			2312 462 7....	UXABXXXXXT1T	52	1000; tape & reel
UXA 0204-05	±0.25	47 Ω to 150 kΩ	2312 663 2....	UXAAXXXXXC1A	52	1000; ammpack
			2312 463 2....	UXABXXXXXC1T	52	1000; tape & reel
	±0.1	47 Ω to 150 kΩ	2312 663 3....	UXAAXXXXXB1A	52	1000; ammpack
			2312 463 3....	UXABXXXXXB1T	52	1000; tape & reel
	±0.05	100 Ω to 150 kΩ	2312 663 4....	UXAAXXXXXA1A	52	1000; ammpack
			2312 463 4....	UXABXXXXXA1T	52	1000; tape & reel
	±0.01	200 Ω to 150 kΩ	2312 663 7....	UXAAXXXXXT1A	52	1000; ammpack
			2312 463 7....	UXABXXXXXT1T	52	1000; tape & reel
UXA 0204-02	±0.10	100 Ω to 100 kΩ	2312 664 3....	UXATXXXXXB1A	52	1000; ammpack
			2312 464 3....	UXATXXXXXB1T	52	1000; tape & reel
	±0.05	150 Ω to 100 kΩ	2312 664 4....	UXATXXXXXA1A	52	1000; ammpack
			2312 464 4....	UXATXXXXXA1T	52	1000; tape & reel
	±0.01	200 Ω to 100 kΩ	2312 664 7....	UXATXXXXXT1A	52	1000; ammpack
			2312 464 7....	UXATXXXXXT1T	52	1000; tape & reel
UXB 0207 ULTRA PRECISION						
UXB 0207-10	±0.25	22 Ω to 301 kΩ	2312 672 2....	UXBBXXXXXC1A	52	1000; ammpack
			2312 472 2....	UXBBXXXXXC1T	52	1000; tape & reel
			2312 577 2....	UXBBXXXXXC5T	52	5000; tape & reel
	±0.1	40.2 Ω to 301 kΩ	2312 672 3....	UXBBXXXXXB1A	52	1000; ammpack
			2312 472 3....	UXBBXXXXXB1T	52	1000; tape & reel
			2312 577 3....	UXBBXXXXXB5T	52	5000; tape & reel
	±0.05	100 z to 301 kΩ	2312 672 4....	UXBBXXXXXA1A	52	1000; ammpack
			2312 472 4....	UXBBXXXXXA1T	52	1000; tape & reel
			2312 577 4....	UXBBXXXXXA5T	52	5000; tape & reel
	±0.01	200 Ω to 301 kΩ	2312 672 7....	UXBBXXXXXT1A	52	1000; ammpack
			2312 472 7....	UXBBXXXXXT1T	52	1000; tape & reel
			2312 577 7....	UXBBXXXXXT5T	52	5000; tape & reel

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UXB 0207-05	±0.25	47 Ω to 221 kΩ	2312 673 2....	UXBAXXXXXXC1A	52	1000; ammpack
			2312 473 2....	UXBBXXXXXC1T	52	1000; tape & reel
			2312 578 2....	UXBAXXXXXC5T	52	5000; tape & reel
	±0.1	47 Ω to 221 kΩ	2312 673 3....	UXBAXXXXXXB1A	52	1000; ammpack
			2312 473 3....	UXBBXXXXXB1T	52	1000; tape & reel
			2312 578 3....	UXBAXXXXXB5T	52	5000; tape & reel
	±0.05	100 Ω to 221 kΩ	2312 673 4....	UXBAXXXXXA1A	52	1000; ammpack
			2312 473 4....	UXBBXXXXA1T	52	1000; tape & reel
			2312 578 4....	UXBAXXXXXA5T	52	5000; tape & reel
	±0.01	200 Ω to 221 kΩ	2312 673 7....	UXBAXXXXXT1A	52	1000; ammpack
			2312 473 7....	UXBBXXXXT1T	52	1000; tape & reel
			2312 578 7....	UXBAXXXXXT5T	52	5000; tape & reel
UXB 0207-02	±0.1	100 Ω to 150 kΩ	2312 674 3....	UXBTXXXXXB1A	52	1000; ammpack
			2312 474 3....	UXBBXXXXB1T	52	1000; tape & reel
			2312 579 3....	UXBTXXXXB5T	52	5000; tape & reel
	±0.05	150 Ω to 150 kΩ	2312 674 4....	UXBTXXXXA1A	52	1000; ammpack
			2312 474 4....	UXBBXXXXA1T	52	1000; tape & reel
			2312 579 4....	UXBTXXXXA5T	52	5000; tape & reel
	±0.01	200 Ω to 150 kz	2312 674 7....	UXBTXXXXT1A	52	1000; ammpack
			2312 474 7....	UXBBXXXXT1T	52	1000; tape & reel
			2312 579 7....	UXBTXXXXT5T	52	5000; tape & reel
SFR25/25H/16S STANDARD						
SFR25	±5	0.22 Ω to 10 MΩ	2306 181 63...	5043EMXXXXJ12AFX	52	5000; tape & reel
			2322 181 43...	2322 181 43XXX	52	5000; ammpack
	±1	0.22 Ω to 10 MΩ	2306 181 8....	5043EDXXXXF12AF5	52	5000; tape & reel
			2322 188 2....	2322 188 2XXXX	52	5000; ammpack
SFR25	-	jumper	2306 181 90011	5043EM0R000J12AFX	52	5000; tape & reel
			2322 181 90019	5043EM0R000J18AFX	52	5000; ammpack
SFR25H	±5	0.22 Ω to 10 MΩ	2322 186 63...	5053HMXXXXJ12AFX	52	5000; tape & reel
			2322 186 76...	2322 186 76XXX	52	5000; ammpack
	±1	0.22 Ω to 10 MΩ	2306 186 8....	5053HDXXXXF12AF5	52	5000; tape & reel
SFR16S	±5	1 Ω to 3 MΩ	2306 187 23...	5033EMXXXXJ12AFX	52.5	5000; tape & reel
			2322 187 53...	2322 187 53XXX	52.5	5000; ammpack
	±1	1 Ω to 3 MΩ	2306 187 1....	5033EDXXXXF12AF5	52.5	5000; tape & reel
			2306 187 3....	2306 187 3XXXX	52.5	5000; ammpack
SFR16S	-	jumper	2306 187 90013	2306 187 90013	52.5	5000; ammpack
NFR25/25H FUSIBLE						
NFR25	±5	1 to 13 Ω	2322 205 23...	5063FMXXXXJ12AFX	52	5000; tape & reel
		15 Ω to 15 kΩ	2322 205 23...	5063FDXXXXJ12AFX	52	5000; tape & reel
		1 to 13 Ω	2322 205 33...	5063FMXXXXJ18AFX	52	5000; ammpack
		15 z to 15 kz	2322 205 33...	5063FDXXXXJ18AFX	52	5000; ammpack
		1 Ω to 15 kΩ	2306 204 03...	2306 204 03XXX	RADIAL	4000; ammpack



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NFR25H	±5	1 Ω to 15 kΩ	2306 207 03...	2306 207 03XXX	RADIAL	4000; tape & reel
			2322 207 23...	2322 207 23XXX	52	5000; tape & reel
			2322 207 33...	2322 207 33XXX	52	5000; ammopack
VR25/37/68 HIGH VOLTAGE/HIGH OHMIC						
VR25	±10	15 MΩ to 22 MΩ	2322 241 22...	2322 241 22XXX	52	5000; tape & reel
			2322 241 12...	2322 241 12XXX	52	1000; ammopack
	±5	100 kΩ to 15 MΩ	2322 241 23...	5043DMXXXXXJ12AFX	52	5000; tape & reel
			2322 241 13...	5043DMXXXXXJ08AFX	52	1000; ammopack
VR37	±5	100 kΩ to 33 MΩ	2322 242 23...	5053DMXXXXXJ12AFX	52	5000; tape & reel
			2322 242 13...	5053DMXXXXXJ08AFX	52	1000; ammopack
	±1	100 kΩ to 15 MΩ	2322 242 8...	5053DMXXXXXF08AF5	52	1000; ammopack
VR68	±5	100 kΩ to 68 MΩ	2322 244 13...	5073DMXXXXXJ08AFX	66.7	500; ammopack
	±1		2322 244 8...	5073DMXXXXXF08AF5	66.7	500; ammopack
PR01/02/03 POWER						
PR01	±5	0.22 Ω to 1 MΩ	2306 197 23...	5073NWXXXXXJ12AFX	52	5000; tape & reel
			2306 197 03...	2306 197 03XXX	radial	4000; ammopack
			2322 193 14...	2322 193 14XXX	52	1000; ammopack
PR02	±5	0.33 Ω to 1 MΩ	2306 191 5...	5073NWXXXXXF12AF5	52	5000; tape & reel
			2306 198 23...	5083NWXXXXXJ12AFX	52	5000; tape & reel
			2306 198 03...	2306 198 03XXX	radial	3000; ammopack
	±1	0.33 Ω to 1 MΩ	2306 198 53...	2306 198 53XXX	52	1000; ammopack
2306 192 5...			5083NWXXXXXF12AF5	52	5000; tape & reel	
PR03	±5	0.68 W to 1 MW	2322 195 14...	5093NWXXXXXJ	63	500; ammopack
AC01/03/04/05/07/10/15/20 CEMENTED WIREWOUND						
AC01	±5	0.1 Ω to 2 kΩ	2306 328 33...	AC01WXXXXXJ	63	1000; ammopack
AC03		0.1 Ω to 4.7 kΩ	2322 329 03...	AC03WXXXXXJ	63	500; ammopack
AC04		0.1 Ω to 6.8 kΩ	2322 329 04...	AC04WXXXXXJ	63	500; ammopack
AC05		0.1 Ω to 8.2 kΩ	2322 329 05...	AC05WXXXXXJ	63	500; ammopack
AC07		0.1 Ω to 15 kΩ	2322 329 07...	AC07WXXXXXJ	74	500; ammopack
AC10		0.68 Ω to 27 kΩ	2322 329 10...	AC10WXXXXXJ	74	500; ammopack
PAC01/02/03/04/05/06 PRECISION WIREWOUND						
PAC01	±1	0.22 Ω to 2.2 kΩ	2306 327 5...	PAC01DXXXXXF	63	1000; ammopack
PAC02		0.10 Ω to 3.6 kΩ	2306 327 0...	PAC02DXXXXXF	63	500; ammopack
PAC03		0.10 Ω to 4.7 kΩ	2306 327 1...	PAC03DXXXXXF	63	500; ammopack
PAC04		0.10 Ω to 8.2 kΩ	2306 327 2...	PAC04DXXXXXF	71	500; ammopack
PAC05		0.68 Ω to 10 kΩ	2307 327 3...	PAC05DXXXXXF	71	500; ammopack
PAC06		0.68 Ω to 12 kΩ	2308 327 4...	PAC06DXXXXXF	71	500; ammopack

Notes

1. In clear text code part numbers, the ohmic value of the resistor is represented by 4-digits for MELFs, 6-digits for UX series and 5-digits for all other resistors; see Examples of Ohmic value table below.

***IMPORTANT:** The North American part number cross reference was created for historical reasons and it is meant to be used in the America's region only. This part numbering system **MUST NOT** be used for other regions.

For current resistance ranges and E-series information please refer to our website www.vishay.com



COMPOSITION OF THE CLEAR TEXT CODE

- The resistors have an ordering code starting with 50 or product type (AC, PAC, etc)
- The subsequent digits indicate the resistor type, temperature coefficient, ohmic value, tolerance and packaging.
- The ohmic value is represented by 4, 5 or 6 digits.
- For temperature coefficient and tolerance.

EXAMPLES OF OHMIC VALUE			
VALUE	4 DIGITS (MELF)	5 DIGITS (ALL OTHER)	6 DIGITS (UX SERIES)
1 Ω	1R00	1R000	01R000
10 Ω	10R0	10R00	10R000
100 Ω	1000	100R0	100R00
1 kΩ	1001	1K000	01K000
10 kΩ	1002	10K00	10K000
100 kΩ	1003	100K0	100K00
1 MΩ	1004	1M000	01M000

LETTER CODING FOR TEMPERATURE COEFFICIENT TOLERANCE			
TC (x10 ⁻⁶ /K)	LETTER CODE	TOL. (%)	LETTER CODE
200	M	±10	K
100	D	±5	J
50	C	±1	F
25	E	±0.50	D
15	F	±0.25	C
10	B	±0.10	B
5	A	±0.05	A
2	T	±0.025	Z
-	-	±0.02	H
-	-	±0.01	T

ORDERING EXAMPLE: CLEAR TEXT CODE

The ordering code of a SFR25 resistor, value 5600 Ω ±5%, taped on a bandolier of 5000 units in tape on reel is: 5043EM5K600J12AFX.

COMPOSITION OF THE 12NC

- The resistors have a 12-digit ordering code starting with 23
- The subsequent 7 digits indicate the resistor type and packaging.
- The remaining digits indicate the resistance value:
 - The first 2 or 3 digits indicate the resistance value.
 - The last digit indicates the resistance decade in accordance with the table below.

RESISTANCE DECADE	LAST DIGIT
0.1 to 0.999 Ω	7
1 to 9.99 Ω	8
10 to 99.9 Ω	9
100 to 999 Ω	1
1 to 9.99 kΩ	2
10 to 99.9 kΩ	3
100 to 999 kΩ	4
1 to 9.99 MΩ	5
≥10 MΩ	6

ORDERING EXAMPLE: 12NC

The ordering code of a SFR25 resistor, value 5600 Ω ±5%, taped on a bandolier of 5000 units in ammpack is: 2322 181 43562.