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Ordering Code	Inductance (µH)	Inductance Tolerance	Q min.	Minimum Self Resonant Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (mA)	Measuring Frequency (MHz)	Thickness mm (inches)	Tape & Reel Packaging Quantity
L0603C47NMSMST	0.047	±20%	10	260	0.30	50	50	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C68NMSMST	0.068	±20%	10	250	0.30	50	50	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C82NMSMST	0.082	±20%	10	245	0.30	50	50	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR10( )SMST	0.10	K±10%, M±20%	15	240	0.50	50	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR12( )SMST	0.12	K±10%, M±20%	15	205	0.50	50	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR15( )SMST	0.15	K±10%, M±20%	15	180	0.60	50	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR18( )SMST	0.18	K±10%, M±20%	15	165	0.60	50	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR22( )SMST	0.22	K±10%, M±20%	15	150	0.80	50	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR27( )SMST	0.27	K±10%, M±20%	15	136	0.80	50	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR33( )SMST	0.33	K±10%, M±20%	15	125	0.85	35	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR39( )SMST	0.39	K±10%, M±20%	15	110	1.00	35	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR47( )SMST	0.47	K±10%, M±20%	15	105	1.35	35	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR56( )SMST	0.56	K±10%, M±20%	15	95	1.55	35	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR68( )SMST	0.68	K±10%, M±20%	15	80	1.70	35	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603CR82( )SMST	0.82	K±10%, M±20%	15	75	2.10	35	25	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C1R0( )SMST	1.0	K±10%, M±20%	35	70	0.60	25	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C1R2( )SMST	1.2	K±10%, M±20%	35	60	0.80	25	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C1R5( )SMST	1.5	K±10%, M±20%	35	55	0.80	25	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C1R8( )SMST	1.8	K±10%, M±20%	35	50	0.95	25	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C2R2( )SMST	2.2	K±10%, M±20%	35	45	1.15	15	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C2R7( )SMST	2.7	K±10%, M±20%	35	40	1.35	15	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C3R3( )SMST	3.3	K±10%, M±20%	35	38	1.55	15	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C3R9( )SMST	3.9	K±10%, M±20%	35	36	1.70	15	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C4R7( )SMST	4.7	K±10%, M±20%	35	33	2.10	15	10	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C5R6( )SMST	5.6	K±10%, M±20%	35	22	1.55	5	4	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C6R8( )SMST	6.8	K±10%, M±20%	35	20	1.70	5	4	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C8R2( )SMST	8.2	K±10%, M±20%	35	18	2.10	5	4	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C100( )SMST	10	K±10%, M±20%	35	17	2.55	5	2	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C120( )SMST	12	K±10%, M±20%	35	15	2.75	5	2	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C150MSMST	15	±20%	20	14	1.70	1	1	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C180MSMST	18	±20%	20	13	1.85	1	1	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C220MSMST	22	±20%	20	11	2.10	1	1	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C270MSMST	27	±20%	20	10	2.75	1	1	0.8 ±0.15 (0.031 ±0.006)	4,000
L0603C330MSMST	33	±20%	20	9	2.95	1	1	0.8 ±0.15 (0.031 ±0.006)	4,000

( ) - Insert Inductance Tolerance Code (K or M)

## 0805 Case Size Multilayer Chip Inductors (L-SMS Series)

Ordering Code	Inductance (µH)	Inductance Tolerance	Q min.	Minimum Self Resonant Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (mA)	Measuring Frequency (MHz)	Thickness mm (inches)	Tape & Reel Packaging Quantity
L0805C47NMSMST	0.047	±20%	15	320	0.20	300	50	0.85 ±0.2 (0.033 ±0.008)	2,000
L0805C68NMSMST	0.068	±20%	15	280	0.20	300	50	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C82NMSMST	0.082	±20%	15	255	0.20	300	50	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR10(_)SMST	0.10	K±10%, M±20%	20	235	0.30	250	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR12(_)SMST	0.12	K±10%, M±20%	20	220	0.30	250	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR15(_)SMST	0.15	K±10%, M±20%	20	200	0.40	250	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR18(_)SMST	0.18	K±10%, M±20%	20	185	0.40	250	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR22(_)SMST	0.22	K±10%, M±20%	20	170	0.50	250	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR27(_)SMST	0.27	K±10%, M±20%	20	150	0.50	250	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR33(_)SMST	0.33	K±10%, M±20%	20	145	0.55	250	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR39(_)SMST	0.39	K±10%, M±20%	25	135	0.65	200	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR47(_)SMST	0.47	K±10%, M±20%	25	125	0.65	200	25	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805CR56(_)SMST	0.56	K±10%, M±20%	25	115	0.75	150	25	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805CR68(_)SMST	0.68	K±10%, M±20%	25	105	0.80	150	25	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805CR82(_)SMST	0.82	K±10%, M±20%	25	100	1.00	150	25	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C1R0(_)SMST	1.0	K±10%, M±20%	45	75	0.40	50	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C1R2(_)SMST	1.2	K±10%, M±20%	45	65	0.50	50	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C1R5(_)SMST	1.5	K±10%, M±20%	45	60	0.50	50	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C1R8(_)SMST	1.8	K±10%, M±20%	45	55	0.60	50	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C2R2(_)SMST	2.2	K±10%, M±20%	45	50	0.65	30	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C2R7(_)SMST	2.7	K±10%, M±20%	45	45	0.75	30	10	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C3R3(_)SMST	3.3	K±10%, M±20%	45	41	0.80	30	10	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C3R9(_)SMST	3.9	K±10%, M±20%	45	38	0.90	30	10	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C4R7(_)SMST	4.7	K±10%, M±20%	45	35	1.00	30	10	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C5R6(_)SMST	5.6	K±10%, M±20%	50	32	0.90	15	4	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C6R8(_)SMST	6.8	K±10%, M±20%	50	29	1.00	15	4	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C8R2(_)SMST	8.2	K±10%, M±20%	50	26	1.10	15	4	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C100(_)SMST	10	K±10%, M±20%	50	24	1.15	15	2	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C120(_)SMST	12	K±10%, M±20%	50	22	1.25	15	2	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C150MSMST	15	±20%	30	19	0.80	5	1	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C180MSMST	18	±20%	30	18	0.90	5	1	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C220MSMST	22	±20%	30	16	1.10	5	1	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C270MSMST	27	±20%	30	14	1.15	5	1	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C330MSMST	33	±20%	30	13	1.25	5	0.4	1.25 ±0.2 (0.049 ±0.008)	2,000

(\_) Insert Tolerance Code (K±10% or M±20%) listed to the right

### 0603 Case Size Multilayer Chip Inductors (L-PMS Series)

Ordering Code	Inductance (μH)	Inductance Tolerance	Minimum Inductance at 200mA (μH)	Maximum DC Resistance (Ω)	Maximum Rated Current (mA)	Measuring Frequency (MHz)	Thickness mm (inches)	Tape & Reel Packaging Quantity
L0603C4R7MPMST	4.7	±20%	20	0.45	60	4	0.80 ±0.15 (0.031 ±0.006)	4,000
L0603C100MPMST	10.0	±20%	20	0.85	50	2	0.80 ±0.15 (0.031 ±0.006)	4,000

### 0805 Case Size Multilayer Chip Inductors (L-PMS Series)

Ordering Code	Inductance (μH)	Inductance Tolerance	Q min.	Minimum Self Resonant Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (mA)	Measuring Frequency (MHz)	Thickness mm (inches)	Tape & Reel Packaging Quantity
L0805CR10MPMST	0.10	±20%	15	235	0.16	500	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR15MPMST	0.15	±20%	15	200	0.20	500	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR22MPMST	0.22	±20%	15	170	0.23	400	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR33MPMST	0.33	±20%	15	145	0.28	400	25	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805CR47MPMST	0.47	±20%	15	125	0.32	400	25	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805CR68MPMST	0.68	±20%	15	105	0.45	300	25	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C1R0MPMST	1.0	±20%	20	75	0.26	220	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C1R5MPMST	1.5	±20%	20	60	0.28	170	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C2R2MPMST	2.2	±20%	20	50	0.35	150	10	0.85 ±0.2 (0.033 ±0.008)	4,000
L0805C3R3MPMST	3.3	±20%	20	41	0.43	130	10	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C4R7MPMST	4.7	±20%	20	35	0.48	80	10	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C6R8MPMST	6.8	±20%	20	29	0.52	70	4	1.25 ±0.2 (0.049 ±0.008)	2,000
L0805C100MPMST	10.0	±20%	20	24	0.65	60	2	1.25 ±0.2 (0.049 ±0.008)	2,000

### 1008 Case Size Multilayer Chip Inductors (L-DMI Series)

Ordering Code	Inductance (μH)	Inductance Tolerance	Minimum Inductance at 200mA (μH)	Maximum DC Resistance (Ω)	Maximum Rated Current (mA)	Measuring Frequency (MHz)	Thickness mm (inches)	Tape & Reel Packaging Quantity
L1008C2R2MDMIT	2.2	±20%	1.5	0.09	1300	1	1.0 max (0.039 max)	4,000
L1008C3R3MDMIT	3.3	±20%	2.0	0.10	1200	1	1.0 max (0.039 max)	4,000
L1008C4R7MDMIT	4.7	±20%	2.5	0.15	1100	1	1.0 max (0.039 max)	4,000

## Low Profile SMD Inductors (L-DWD Series)

### Features:

- Small and low profile inductor
- Corresponds to high current
- Simple and original magnetic shield structure
- Structure strong against shock-proof

### Applications:

- For small DC/DC converter; cellular phones, HDD, HVC, DSC, and PDA LCD display

### Operating Temperature:

- -25°C to +120°C (including self-generated heat)

### Part Numbering Table



### Dimension Table in millimeters (inches)



Metric Dim. Code	L Length (inches)	W Width (inches)	T Thickness Maximum (inches)	E (inches)	F
3010	3.0 ±0.1 (0.118 ±0.004)	3.0 ±0.1 (0.118 ±0.004)	1.0 max. (0.039 max.)	0.9 ±0.2 (0.035 ±0.008)	1.9 ±0.2 (0.075 ±0.008)
4010	4.0 ±0.2 (0.157 ±0.008)	4.0 ±0.2 (0.157 ±0.008)	1.0 max. (0.039 max.)	1.1 ±0.2 (0.043 ±0.008)	2.5 ±0.2 (0.098 ±0.008)
4012	4.0 ±0.2 (0.157 ±0.008)	4.0 ±0.2 (0.157 ±0.008)	1.2 max. (0.047 max.)	1.1 ±0.2 (0.043 ±0.008)	2.5 ±0.2 (0.098 ±0.008)
4018	4.0 ±0.2 (0.157 ±0.008)	4.0 ±0.2 (0.157 ±0.008)	1.8 max. (0.071 max.)	1.1 ±0.2 (0.043 ±0.008)	2.5 ±0.2 (0.098 ±0.008)
8040	8.0 ±0.2 (0.315 ±0.008)	8.0 ±0.2 (0.315 ±0.008)	4.2 max (0.165 max)	1.6 ±0.3 (0.063 ±0.012)	5.6 ±0.3 (0.220 ±0.012)

### Dimensions 3.0mm x 3.0mm (L-DWD3010 Type, 1.0mm Max. Height)

Ordering Code	Inductance (µH)	Inductance Tolerance	Measuring Frequency (KHz)	Minimum Self-resonant Frequency (MHz)	Maximum DC Resistance (Ω) ±30%	Maximum Rated Current (mA)	Maximum Height (mm)	Tape & Reel Packaging Quantity
L3010C1R0NDWDT	1.0	±30%	100	126	0.065	1300	1.0	2,000
L3010C1R5NDWDT	1.5	±30%	100	98	0.08	1200	1.0	2,000
L3010C2R2MDWDT	2.2	±20%	100	82	0.095	1100	1.0	2,000
L3010C3R3MDWDT	3.3	±20%	100	63	0.14	870	1.0	2,000
L3010C4R7MDWDT	4.7	±20%	100	56	0.19	750	1.0	2,000
L3010C6R8MDWDT	6.8	±20%	100	46	0.30	610	1.0	2,000
L3010C100MDWDT	10	±20%	100	35	0.45	500	1.0	2,000
L3010C150MDWDT	15	±20%	100	30	0.74	400	1.0	2,000
L3010C220MDWDT	22	±20%	100	25	1.03	350	1.0	2,000
L3010C330MDWDT	33	±20%	100	20	1.55	260	1.0	2,000
L3010C470MDWDT	47	±20%	100	17	2.05	220	1.0	2,000

### Dimensions 4.0mm x 4.0mm (L-DWD4010 Type, 1.0mm Max. Height)

Ordering code	Inductance (µH)	Inductance Tolerance	Measuring Frequency (KHz)	Minimum Self-resonant Frequency (MHz)	Maximum DC Resistance (Ω) ±30%	Maximum Rated Current (mA)	Maximum Height (mm)	Tape & Reel Packaging Quantity
L4010C1R0NDWDT	1.0	±30%	100	116	0.10	1050	1.0	5,000
L4010C2R2NDWDT	2.2	±30%	100	73	0.15	890	1.0	5,000
L4010C3R3MDWDT	3.3	±20%	100	58	0.18	820	1.0	5,000
L4010C4R7MDWDT	4.7	±20%	100	47	0.21	750	1.0	5,000
L4010C6R8MDWDT	6.8	±20%	100	38	0.30	620	1.0	5,000
L4010C100MDWDT	10	±20%	100	31	0.38	560	1.0	5,000
L4010C150MDWDT	15	±20%	100	24	0.51	470	1.0	5,000
L4010C220MDWDT	22	±20%	100	19	0.87	360	1.0	5,000
L4010C330MDWDT	33	±20%	100	15	1.54	280	1.0	5,000
L4010C470MDWDT	47	±20%	100	13	1.81	240	1.0	5,000

### Dimensions 4.0mm x 4.0mm (L-DWD4012 Type, 1.2mm Max. Height)

Ordering Code	Inductance (µH)	Inductance Tolerance	Measuring Frequency (KHz)	Minimum Self-resonant Frequency (MHz)	Maximum DC Resistance (Ω) ±30%	Maximum Rated Current (mA)	Maximum Height (mm)	Tape & Reel Packaging Quantity
L4012C1R0NDWDT	1.0	±30%	100	131	0.06	1500	1.2	4,500
L4012C2R2MDWDT	2.2	±20%	100	66	0.09	1200	1.2	4,500
L4012C3R3MDWDT	3.3	±20%	100	50	0.13	980	1.2	4,500
L4012C4R7MDWDT	4.7	±20%	100	45	0.14	960	1.2	4,500
L4012C6R8MDWDT	6.8	±20%	100	35	0.18	840	1.2	4,500
L4012C100MDWDT	10	±20%	100	28	0.24	740	1.2	4,500
L4012C150MDWDT	15	±20%	100	23	0.40	560	1.2	4,500
L4012C220MDWDT	22	±20%	100	18	0.48	510	1.2	4,500
L4012C330MDWDT	33	±20%	100	15	0.81	400	1.2	4,500
L4012C470MDWDT	47	±20%	100	12	1.00	350	1.2	4,500

### Dimensions 4.0mm x 4.0mm (L-DWD4018 Type, 1.8mm Max. Height)

Ordering Code	Inductance (µH)	Inductance Tolerance	Measuring Frequency (KHz)	Minimum Self-resonant Frequency (MHz)	Maximum DC Resistance (Ω) ±30%	Maximum Rated Current (mA)	Maximum Height (mm)	Tape & Reel Packaging Quantity
L4018C1R0NDWDT	1.0	±30%	100	80	0.03	1830	1.8	3,500
L4018C2R2MDWDT	2.2	±20%	100	52	0.06	1440	1.8	3,500
L4018C3R3MDWDT	3.3	±20%	100	44	0.07	1230	1.8	3,500
L4018C4R7MDWDT	4.7	±20%	100	34	0.09	1200	1.8	3,500
L4018C6R8MDWDT	6.8	±20%	100	29	0.11	1060	1.8	3,500
L4018C100MDWDT	10	±20%	100	24	0.18	840	1.8	3,500
L4018C150MDWDT	15	±20%	100	19	0.25	650	1.8	3,500
L4018C220MDWDT	22	±20%	100	16	0.36	590	1.8	3,500
L4018C330MDWDT	33	±20%	100	12	0.53	490	1.8	3,500
L4018C470MDWDT	47	±20%	100	10	0.65	420	1.8	3,500
L4018C680MDWDT	68	±20%	100	8.3	1.00	320	1.8	3,500
L4018C101MDWDT	100	±20%	100	6.5	1.50	280	1.8	3,500
L4018C221MDWDT	220	±20%	100	4	4.00	170	1.8	3,500

### Dimensions 8.0mm x 8.0mm (L-DWD8040 Type, 4.2mm Max. Height)

Ordering Code	Inductance (µH)	Inductance Tolerance	Measuring Frequency (KHz)	Minimum Self-resonant Frequency (MHz)	Maximum DC Resistance (Ω) ±30%	Maximum Rated Current (mA)	Maximum Height (mm)	Tape & Reel Packaging Quantity
L8040C0R9NDWDT	0.9	±30%	100	85	0.006	7800	4.0	1,000
L8040C1R4NDWDT	1.4	±30%	100	63	0.007	7000	4.0	1,000
L8040C2R0NDWDT	2.0	±30%	100	50	0.009	6300	4.0	1,000
L8040C3R6NDWDT	3.6	±30%	100	34	0.015	4900	4.0	1,000
L8040C4R7NDWDT	4.7	±30%	100	30	0.018	4100	4.0	1,000
L8040C6R8NDWDT	6.8	±30%	100	24	0.025	3700	4.0	1,000
L8040C100MDWDT	10	±20%	100	22	0.034	3100	4.2	1,000
L8040C150MDWDT	15	±20%	100	16	0.050	2400	4.2	1,000
L8040C220MDWDT	22	±20%	100	13	0.066	2200	4.2	1,000
L8040C330MDWDT	33	±20%	100	12	0.100	1700	4.2	1,000
L8040C470MDWDT	47	±20%	100	8	0.150	1400	4.2	1,000
L8040C680MDWDT	68	±20%	100	7	0.230	1100	4.2	1,000
L8040C101MDWDT	100	±20%	100	6	0.290	1000	4.2	1,000

## High Current Ferrite Chip Beads - Z-PWS/Z-PWZ Series

### Features:

- Power supply units:
  - Large withstand voltage (allowable current up to 6A)
  - Resistant to high energy
  - High reliability
- There are several variations of the standard (Z-PWS) type (10th digit in part number)
  - "A" for broadband
  - "B" for upper MHz range applications
  - "G" for GHz range applications
- The Z-PWZ type is optimal for circuit designs which require impedance and large currents to combat radiated noise on power lines, etc.

### Applications:

- Combats power line radiated and conducted noise
- Provides waveform correction of digital signals and high frequency noise countermeasures in various types of digital equipment
- Automotive
- Computer peripherals
- Differential transmission line on USB and similar products
- Mobile devices which require lower power consumption

### Operating Temperature:

- -40°C to +125°C (includes self-generated heat)

## Part Numbering Table



## Dimension Table in millimeters (inches)



Characteristic Code	EIA Case Size	Metric Dim. Code	L Length (inches)	W Width (inches)	T Thickness Maximum (inches)	E (inches)
Z-PWS	0603	1608	1.6 ±0.2 (0.063 ±0.008)	0.8 ±0.2 (0.031 ±0.008)	0.8 ±0.2 (0.031 ±0.008)	0.3 ±0.2 (0.012 ±0.008)
	0805	2125	2.0 ±0.2 (0.079 ±0.008)	1.25 ±0.2 (0.049 ±0.008)	0.85 ±0.2 (0.02 ±0.002)	0.5 ±0.3 (0.020 ±0.012)
	1206	3216	3.2 ±0.3 (0.126 ±0.012)	1.6 ±0.2 (0.063 ±0.008)	1.6 ±0.2 (0.063 ±0.008)	0.5 ±0.3 (0.020 ±0.012)
	1806	4516	4.5 ±0.3 (0.177 ±0.012)	1.6 ±0.2 (0.063 ±0.008)	1.6 ±0.2 (0.063 ±0.008)	0.5 ±0.3 (0.020 ±0.012)
Z-PWZ	0603	1608	1.6 ±0.1 (0.063 ±0.004)	0.8 ±0.1 (0.031 ±0.004)	0.8 ±0.1 (0.031 ±0.004)	0.3 ±0.15 (0.012 ±0.006)
	0805	2012	2.0 ±0.2 (0.079 ±0.008)	1.25 ±0.2 (0.049 ±0.008)	0.85 ±0.2 (0.02 ±0.002)	0.5 ±0.3 (0.020 ±0.012)
	0806	2016	2.0 ±0.2 (0.079 ±0.008)	1.6 ±0.2 (0.063 ±0.008)	1.6 ±0.2 (0.063 ±0.008)	0.5 ±0.3 (0.020 ±0.012)
	1206	3216	3.2 ±0.3 (0.126 ±0.012)	1.6 ±0.2 (0.063 ±0.008)	1.6 ±0.2 (0.063 ±0.008)	0.5 ±0.3 (0.020 ±0.012)
	1210	3225	3.2 ±0.3 (0.126 ±0.012)	2.5 ±0.3 (0.098 ±0.012)	2.5 ±0.3 (0.098 ±0.012)	0.5 ±0.3 (0.020 ±0.012)
	1806	4516	4.5 ±0.3 (0.177 ±0.012)	1.6 ±0.2 (0.063 ±0.008)	1.6 ±0.2 (0.063 ±0.008)	0.5 ±0.3 (0.020 ±0.012)
	1810	4525	4.5 ±0.4 (0.177 ±0.016)	2.5 ±0.3 (0.098 ±0.012)	2.5 ±0.3 (0.098 ±0.012)	0.9 ±0.6 (0.035 ±0.024)
	1812	4532	4.5 ±0.4 (0.177 ±0.016)	3.2 ±0.3 (0.126 ±0.012)	3.2 ±0.3 (0.126 ±0.012)	0.9 ±0.6 (0.035 ±0.024)

### 0603 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

Ordering Code	Impedance (Ω)	Measuring Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (A)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0603C230BPWST	23 ±30%	100	0.007	4	0.8 ±0.2 (0.031 ±0.008)	4,000
Z0603C280APWST	28 ±30%	100	0.007	4	0.8 ±0.2 (0.031 ±0.008)	4,000

### 0805 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

Ordering Code	Impedance (Ω)	Measuring Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (A)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0805C8R0GPWST	8 ±30%	100	0.01	2	0.85 ±0.2 (0.033 ±0.008)	4,000
Z0805C210BPWST	21 ±30%	100	0.004	6	0.85 ±0.2 (0.033 ±0.008)	4,000
Z0805C250APWST	25 ±30%	100	0.004	6	0.85 ±0.2 (0.033 ±0.008)	4,000
Z0805C330BPWST	33 ±25%	100	0.008	4	0.85 ±0.2 (0.033 ±0.008)	4,000
Z0805C420APWST	42 ±25%	100	0.008	4	0.85 ±0.2 (0.033 ±0.008)	4,000

### 1206 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

Ordering Code	Impedance (Ω)	Measuring Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (A)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z1206C380BPWST	38 ±30%	100	0.005	6	1.1 ±0.2 (0.043 ±0.008)	2,000
Z1206C480APWST	48 ±30%	100	0.005	6	1.1 ±0.2 (0.043 ±0.008)	2,000
Z1206C600BPWST	60 ±25%	100	0.01	4	1.1 ±0.2 (0.043 ±0.008)	2,000
Z1206C800APWST	80 ±25%	100	0.01	4	1.1 ±0.2 (0.043 ±0.008)	2,000

### 1806 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

Ordering Code	Impedance (Ω)	Measuring Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (A)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z1806C560BPWST	56 ±30%	100	0.007	6	1.1 ±0.2 (0.043 ±0.008)	2,000
Z1806C900BPWST	90 ±25%	100	0.014	4	1.1 ±0.2 (0.043 ±0.008)	2,000
Z1806C720APWST	72 ±30%	100	0.007	6	1.1 ±0.2 (0.043 ±0.008)	2,000
Z1806C111APWST	110 ±25%	100	0.014	4	1.1 ±0.2 (0.043 ±0.008)	2,000



# High Current Ferrite Chip Beads - Z-PWS, Z-PWZ Series

## 0603-1812 Case Size High Impedance Type Ferrite Chip Beads (Z-PWZ Series)

Ordering Code	EIA Case Size	Impedance (Ω)	Measuring Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (A)	Thickness mm (inches)	Tape & Reel Packaging Quantity
<b>0603 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z0603C470BPWZT	0603	47 ±25%	100	0.02	3.5	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C600BPWZT	0603	60 ±25%	100	0.025	3	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C101BPWZT	0603	100 ±25%	100	0.035	2	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C151BPWZT	0603	150 ±25%	100	0.05	2	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C221BPWZT	0603	220 ±25%	100	0.07	1.5	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C331BPWZT	0603	330 ±25%	100	0.13	0.9	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C471BPWZT	0603	470 ±25%	100	0.15	0.7	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C601BPWZT	0603	600 ±25%	100	0.17	0.7	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C102BPWZT	0603	1000 ±25%	100	0.35	0.5	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C300GPWZT	0603	30 ±25%	100	0.028	2.5	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C600GPWZT	0603	60 ±25%	100	0.045	1.8	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C121GPWZT	0603	120 ±25%	100	0.13	0.9	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C221GPWZT	0603	220 ±25%	100	0.17	0.7	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C331GPWZT	0603	330 ± 5%	100	0.21	0.6	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C471GPWZT	0603	470 ±25%	100	0.35	0.5	0.8 ±0.1 (0.031 ±0.004)	4,000
Z0603C601GPWZT	0603	600 ±25%	100	0.45	0.4	0.8 ±0.1 (0.031 ±0.004)	4,000
<b>0805 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z0805C800BPWZT	0805	80 ±25%	100	0.025	2.7	0.85 ±0.2 (0.033 ±0.008)	4,000
Z0805C121BPWZT	0805	120 ±25%	100	0.032	2.5	0.85 ±0.2 (0.033 ±0.008)	4,000
<b>0806 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z0806C221BPWZT	0805	220 ±25%	100	0.06	2	0.85 ±0.2 (0.033 ±0.008)	4,000
Z0806C331BPWZT	0805	330 ±25%	100	0.08	1.8	0.85 ±0.2 (0.033 ±0.008)	4,000
Z0806C251BPWZT	0806	250 ±30%	100	0.05	2	1.6 ±0.2 (0.063 ±0.008)	2,000
<b>1206 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z1206C501BPWZT	1206	500 ±30%	100	0.07	2	1.6 ±0.2 (0.063 ±0.008)	2,000
<b>1210 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z1210C601BPWZT	1210	600 ±30%	100	0.042	3	2.5 ±0.3 (0.098 ±0.012)	1,000
Z1210C102BPWZT	1210	1000 ±30%	100	0.1	2	2.5 ±0.3 (0.098 ±0.012)	1,000
Z1210C202BPWZT	1210	2000 ±30%	100	0.13	1.2	2.5 ±0.3 (0.098 ±0.012)	1,000
<b>1806 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z1806C851BPWZT	1806	850 ±30%	100	0.1	1.5	1.6 ±0.2 (0.063 ±0.008)	1,000
<b>1810 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z1810C102BPWZT	1810	1000 ±30%	100	0.06	3	2.5 ±0.3 (0.098 ±0.012)	1,000
Z1810C162BPWZT	1810	1600 ±30%	100	0.13	2	2.5 ±0.3 (0.098 ±0.012)	1,000
<b>1812 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b>							
Z1812C681BPWZT	1812	680 ±25%	100	0.028	4	3.2 ±0.3 (0.126 ±0.012)	2,000
Z1812C132BPWZT	1812	1300 ±25%	100	0.06	3	3.2 ±0.3 (0.126 ±0.012)	2,000
Z1812C202BPWZT	1812	2000 ±25%	100	0.13	1.3	3.2 ±0.3 (0.126 ±0.012)	2,000

## Multilayer Ferrite Chip Beads - Z-SMS/Z-PMS Series

### Z-SMS Features:

- Internal silver printed layer creates a closed circuit which acts as a magnetic shield to minimize heat generation and crosstalk
- No need for grounding provides greater circuit design flexibility
- Several material types and a broad range of impedance values provide noise countermeasures for various applications (10th digit in part number)
- "A" Suppresses the XL component. Helps stop the reduction of the wave-form integrity (digital wave-form overshoot, etc)
- "B" Increases the Z characteristics sharply above 20MHz and is applicable for radiated noise in the 100MHz-300MHz range. Especially effective on video signal lines.
- "C" Designed as a noise countermeasure for 200MHz-500MHz range where the rise of the Z component is in the high frequency area.
- "D" Intended for noise suppression around 200MHz. Effectively increase attenuation
- "E" The best material in the Z-SMS Series to suppress the XL component and stop the reduction of the wave-form integrity while maintaining attenuation in the high frequency area.
- "F" Reduced DC resistance version for noise countermeasures around LSI power supplies

### Z-SMS Applications:

- High frequency noise countermeasure in personal computers, digital cameras and other information system products. For use on digital product clock lines and general signal lines.
- Radiated noise suppression in computer or printer interfaces harness connectors.
- Noise suppression in video and other AV products
- Prevents interference between circuits in cellular phones (PHS, PDC, etc)
- Due to the closed internal circuit which acts as a magnetic shield, the "F" material is extremely effective as a noise filter on LSI power supplies where downsizing of components is needed.

### Z-PMS Applications:

- High frequency noise countermeasures on the DC power supply line in personal computers and other information system products
- Noise suppression in USB and IEEE1294 interface
- Prevents interference between circuits in mobile systems (PDC, PHS, PDA)

### Operating Temperature:

- Z-SMS: -55°C to +125°C (includes self-generated heat)
- Z-PMS: -55°C to +85°C (includes self-generated heat)

### Z-PMS Features:

- Low Rdc values reduce power dissipation and extend battery life
- No need for grounding provides greater circuit design flexibility

## Part Numbering Table



## Dimension Table in millimeters (inches)



EIA Case Size	Metric Dim. Code	L Length (inches)	W Width (inches)	T Thickness Maximum (inches)	E (inches)
0201	0603	0.6 ±0.03 (0.2 ±0.001)	0.30 ±0.03 (0.012 ±0.001)	0.30 ±0.03 (0.012 ±0.001)	0.15 ±0.05 (0.006 ±0.002)
0402	1005	1.00 ±0.05 (0.039 ±0.002)	0.50 ±0.05 (0.020 ±0.002)	0.50 ±0.05 (0.020 ±0.002)	0.25 ±0.10 (0.010 ±0.004)
0603	1608	1.6 ±0.15 (0.063 ±0.006)	0.8 ±0.15 (0.031 ±0.006)	0.8 ±0.15 (0.031 ±0.006)	0.3 ±0.2 (0.012 ±0.008)
0805	2125	2.0 +0.3/-0.1 (0.079 +0.012/-0.004)	1.25 ±0.2 (0.049 ±0.008)	0.85 ±0.2 (0.033 ±0.008)	0.5 ±0.3 (0.020 ±0.012)

# Multilayer Ferrite Chip Beads - Z-SMS, Z-PMS Series

## 0201 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

Ordering Code	Impedance ( $\Omega$ ) $\pm 25\%$	Measuring Frequency (MHz)	Maximum DC Resistance ( $\Omega$ )	Maximum Rated Current (mA)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0201C220ASMST	22	100	0.10	500	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C330ASMST	33	100	0.20	350	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C800ASMST	80	100	0.40	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C121ASMST	120	100	0.50	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C241ASMST	240	100	0.80	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C600BSMST	60	100	0.40	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C121BSMST	120	100	0.50	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C241BSMST	240	100	0.80	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C100CSMST	10	100	0.40	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C220CSMST	22	100	0.50	200	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C330CSMST	33	100	0.80	150	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000
Z0201C470CSMST	47	100	1.00	150	0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001)	15,000

## 0402 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

Ordering Code	Impedance ( $\Omega$ ) $\pm 25\%$	Measuring Frequency (MHz)	Maximum DC Resistance ( $\Omega$ )	Maximum Rated Current (mA)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0402C680ESMST	68	100	0.17	500	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C121ESMST	120	100	0.24	450	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C241ESMST	240	100	0.31	400	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C431ESMST	430	100	0.50	350	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C601ESMST	600	100	0.60	300	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C100ASMST	10	100	0.05	1000	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C330ASMST	33	100	0.10	700	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C680ASMST	68	100	0.13	600	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C121ASMST	120	100	0.23	500	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C241ASMST	240	100	0.33	400	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C601ASMST	600	100	0.58	300	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C121BSMST	120	100	0.25	300	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C241BSMST	240	100	0.36	300	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C471BSMST	470	100	0.56	250	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C601BSMST	600	100	0.59	250	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C102BSMST	1000	100	0.80	150	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C100CSMST	10	100	0.15	500	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C220CSMST	22	100	0.20	400	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C330CSMST	33	100	0.30	400	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C470CSMST	47	100	0.35	350	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C680CSMST	68	100	0.31	400	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C121CSMST	120	100	0.45	350	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C181CSMST	180	100	0.53	300	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000
Z0402C241CSMST	240	100	0.70	250	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000

## 0402 Multilayer Ferrite Chip Beads For Power Lines (Z-PMS Series)

Ordering Code	Impedance ( $\Omega$ ) $\pm 25\%$	Measuring Frequency (MHz)	Maximum DC Resistance ( $\Omega$ )	Maximum Rated Current (mA)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0402C121APMST	120	100	0.14	1000	0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002)	10,000

### 0603 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

Ordering Code	Impedance (Ω) ±25%	Measuring Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (mA)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0603C121ESMST	120	100	0.15	600	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C241ESMST	240	100	0.25	450	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C431ESMST	430	100	0.30	400	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C601ESMST	600	100	0.40	300	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C220ASMST	22	100	0.05	1500	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C330ASMST	33	100	0.08	1200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C470ASMST	47	100	0.10	900	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C600ASMST	60	100	0.10	800	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C800ASMST	80	100	0.10	600	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C121ASMST	120	100	0.18	500	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C241ASMST	240	100	0.25	400	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C601ASMST	600	100	0.45	350	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C102ASMST	1000	100	0.60	300	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C121BSMST	120	100	0.20	350	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C241BSMST	240	100	0.35	300	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C471BSMST	470	100	0.45	250	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C601BSMST	600	100	0.60	250	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C102BSMST	1000	100	0.70	200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C300CSMST	30	100	0.20	500	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C470CSMST	47	100	0.30	400	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C560CSMST	56	100	0.30	400	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C680CSMST	68	100	0.35	300	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C121CSMST	120	100	0.50	300	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C181CSMST	180	100	0.65	250	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C241CSMST	240	100	0.80	250	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C331CSMST	330	100	0.85	200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C431CSMST	430	100	0.85	200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C511CSMST	510	100	0.90	200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C681CSMST	680	100	1.00	150	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C751DSMST	750	100	0.60	300	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C152DSMST	1500	100	0.75	250	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C182DSMST	1800	100	0.85	200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C252DSMST	2500	100	1.10	200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C431FSMST	430	100	0.25 ±30%	400	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C601FSMST	600	100	0.27 ±30%	350	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C102FSMST	1000	100	0.35 ±30%	300	0.80 ±0.15 (0.031 ±0.006)	4,000

### 0603 Multilayer Ferrite Chip Beads For Power Lines (Z-PMS Series)

Ordering Code	Impedance (Ω) ±25%	Measuring Frequency (MHz)	Maximum DC Resistance (Ω)	Maximum Rated Current (mA)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0603C330APMST	33	100	0.025	3000	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C600APMST	60	100	0.040	2500	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C101APMST	100	100	0.050	1700	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C121APMST	120	100	0.035	2700	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C181APMST	180	100	0.075	1500	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C271APMST	270	100	0.110	1200	0.80 ±0.15 (0.031 ±0.006)	4,000
Z0603C391APMST	390	100	0.140	1000	0.80 ±0.15 (0.031 ±0.006)	4,000

# Multilayer Ferrite Chip Beads - Z-SMS, Z-PMS Series

## 0805 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

Ordering Code	Impedance ( $\Omega$ ) $\pm 25\%$	Measuring Frequency (MHz)	Maximum DC Resistance ( $\Omega$ )	Maximum Rated Current (mA)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0805C150ASMST	15	100	0.05	1200	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C220ASMST	22	100	0.05	1200	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C330ASMST	33	100	0.05	1200	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C470ASMST	47	100	0.05	1000	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C750ASMST	75	100	0.10	1000	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C101ASMST	100	100	0.10	900	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C121ASMST	120	100	0.15	800	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C241ASMST	240	100	0.20	600	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C431ASMST	430	100	0.25	500	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C601ASMST	600	100	0.30	500	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C102ASMST	1000	100	0.40	300	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C121BSMST	120	100	0.15	800	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C241BSMST	240	100	0.20	600	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C471BSMST	470	100	0.25	500	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C601BSMST	600	100	0.25	500	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C102BSMST	1000	100	0.35	400	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C560CSMST	56	100	0.20	600	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C121CSMST	120	100	0.30	400	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C241CSMST	240	100	0.35	300	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C751DSMST	750	100	0.30	400	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C152DSMST	1500	100	0.35	400	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C182DSMST	1800	100	0.45	300	1.25 $\pm$ 0.2 (0.049 $\pm$ 0.008)	2,000
Z0805C252DSMST	2500	100	0.75	200	1.25 $\pm$ 0.2 (0.049 $\pm$ 0.008)	2,000

## 0805 Multilayer Ferrite Chip Beads For Power Lines (Z-PMS Series)

Ordering Code	Impedance ( $\Omega$ ) $\pm 25\%$	Measuring Frequency (MHz)	Maximum DC Resistance ( $\Omega$ )	Maximum Rated Current (mA)	Thickness mm (inches)	Tape & Reel Packaging Quantity
Z0805C330APMST	33	100	0.020	4000	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C600APMST	60	100	0.025	3000	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C101APMST	100	100	0.040	2500	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000
Z0805C221APMST	220	100	0.050	2000	0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008)	4,000



**DISCLAIMER**

All electronic components or devices listed in this catalog are developed, designed and intended for use in general electronic equipment. Before incorporating these components into any equipment in the fields of aerospace, military or medical, where higher safety and reliability are required, please contact KEMET Corporation for more details.

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