

CHIP COILS (CHIP INDUCTORS) LQW15AN = 8Z Murata Standard Reference Specification [AEC-Q200]

1. Scope

This reference specification applies to chip coils (chip inductors) LQW15AN_8Z series for automotive electronics based on AEC-Q200 except for power trains and safeties.

2. Part Numbering

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W	15	Α	N	1N3	C	8	Z	D
Structure	Dimension	Application	Category	Inductance	Tolerance	Performance	Category	Packaging
	$(L \times W)$	and					Z: Automotive	D: taping
		characteristic						*B: bulk
		Structure Dimension	Structure Dimension Application (L × W) and	Structure Dimension Application Category (L × W) and	Structure Dimension (L × W) Application Category Inductance	Structure Dimension (L × W) Application and Category Inductance Tolerance	Structure Dimension Application Category Inductance Tolerance Performance (L × W) and	Structure Dimension (L × W) Application and Category Inductance Tolerance Performance Category Z: Automotive

^{*}B: Bulk packing is also available (taping condition: however, products without reels are put in plastic bags).

3. Part Number and Rating

Operating temperature range	-55°C to +125°C
Storage temperature range	-55°C to +125°C

		Indu	uctance		DC	Colf recement	Datad	ESD
Customer Part number	Murata Part number	Nominal value (nH)	Tolerance	Q (Min.)	resistance (Ω max.)	Self-resonant frequency (GHz min.)	Rated current (mA)*1	Rank 6: 25 kV
	LQW15AN1N3C8ZD	1.3	C: ±0.2 nH	20	0.012	18.0	3150	6
	LQW15AN1N3D8ZD	1.3	D: ±0.5 nH	20	0.012	18.0	3150	6
	LQW15AN1N5C8ZD	1.5	C: ±0.2 nH	20	0.028	18.0	2100	6
	LQW15AN1N5D8ZD	1.5	D: ±0.5 nH	20	0.028	18.0	2100	6
	LQW15AN1N6C8ZD	1.6	C: ±0.2 nH	20	0.045	18.0	1450	6
	LQW15AN1N6D8ZD	1.6	D: ±0.5 nH	20	0.045	18.0	1450	6
	LQW15AN1N7C8ZD	1.7	C: ±0.2 nH	20	0.065	18.0	1150	6
	LQW15AN1N7D8ZD	1.7	D: ±0.5 nH	20	0.065	18.0	1150	6
	LQW15AN2N2B8ZD	2.2	B: ±0.1 nH	30	0.022	15.5	2530	6
	LQW15AN2N2C8ZD	2.2	C: ±0.2 nH	30	0.022	15.5	2530	6
	LQW15AN2N2D8ZD	2.2	D: ±0.5 nH	30	0.022	15.5	2530	6
	LQW15AN2N2G8ZD	2.2	G: ±2%	30	0.022	15.5	2530	6
	LQW15AN2N3B8ZD	2.3	B: ±0.1 nH	30	0.022	15.5	2530	6
	LQW15AN2N3C8ZD	2.3	C: ±0.2 nH	30	0.022	15.5	2530	6
	LQW15AN2N3D8ZD	2.3	D: ±0.5 nH	30	0.022	15.5	2530	6
	LQW15AN2N3G8ZD	2.3	G: ±2%	30	0.022	15.5	2530	6
	LQW15AN2N4B8ZD	2.4	B: ±0.1 nH	30	0.022	15.5	2530	6
	LQW15AN2N4C8ZD	2.4	C: ±0.2 nH	30	0.022	15.5	2530	6
	LQW15AN2N4D8ZD	2.4	D: ±0.5 nH	30	0.022	15.5	2530	6
	LQW15AN2N4G8ZD	2.4	G: ±2%	30	0.022	15.5	2530	6
	LQW15AN2N5B8ZD	2.5	B: ±0.1 nH	30	0.030	15.5	2100	6
	LQW15AN2N5C8ZD	2.5	C: ±0.2 nH	30	0.030	15.5	2100	6
	LQW15AN2N5D8ZD	2.5	D: ±0.5 nH	30	0.030	15.5	2100	6
	LQW15AN2N5G8ZD	2.5	G: ±2%	30	0.030	15.5	2100	6
	LQW15AN2N6B8ZD	2.6	B: ±0.1 nH	30	0.035	14.5	1950	6
	LQW15AN2N6C8ZD	2.6	C: ±0.2 nH	30	0.035	14.5	1950	6
	LQW15AN2N6D8ZD	2.6	D: ±0.5 nH	30	0.035	14.5	1950	6
	LQW15AN2N6G8ZD	2.6	G: ±2%	30	0.035	14.5	1950	6
	LQW15AN2N7B8ZD	2.7	B: ±0.1 nH	28	0.047	14.0	1500	6

		Indu	uctance		DC	Self-resonant	Rated	ESD
Customer	Murata	Nominal		Q (Min.)	resistance	frequency	current	Rank
Part number	Part number	value (nH)	Tolerance	(Min.)	(Ω max.)	(GHz min.)	(mA)*1	6: 25 kV
	LQW15AN2N7C8ZD	2.7	C: ±0.2 nH	28	0.047	14.0	1500	6
	LQW15AN2N7C8ZD	2.7	D: ±0.5 nH	28	0.047	14.0	1500	6
	LQW15AN2N7G8ZD	2.7	G: ±2%	28	0.047	14.0	1500	6
	LQW15AN2N8B8ZD	2.8	B: ±0.1 nH	27	0.047	13.5	1500	6
	LQW15AN2N8C8ZD	2.8	C: ±0.2 nH	27	0.047	13.5	1500	6
	LQW15AN2N8D8ZD	2.8	D: ±0.5 nH	27	0.047	13.5	1500	6
	LQW15AN2N8G8ZD	2.8	G: ±2%	27	0.047	13.5	1500	6
	LQW15AN2N9B8ZD	2.9	B: ±0.1 nH	25	0.047	12.5	1500	6
	LQW15AN2N9C8ZD	2.9	C: ±0.2 nH	25	0.047	12.5	1500	6
	LQW15AN2N9D8ZD	2.9	D: ±0.5 nH	25	0.047	12.5	1500	6
	LQW15AN2N9G8ZD	2.9	G: ±2%	25	0.047	12.5	1500	6
	LQW15AN3N0B8ZD	3.0	B: ±0.1 nH	20	0.063	12.5	1350	6
	LQW15AN3N0C8ZD	3.0	C: ±0.2 nH	20	0.063	12.5	1350	6
	LQW15AN3N0D8ZD	3.0	D: ±0.5 nH	20	0.063	12.5	1350	6
	LQW15AN3N0G8ZD	3.0	G: ±2%	20	0.063	12.5	1350	6
	LQW15AN3N3B8ZD	3.3	B: ±0.1 nH	30	0.030	14	2000	6
	LQW15AN3N3C8ZD	3.3	C: ±0.2 nH	30	0.030	14	2000	6
	LQW15AN3N3D8ZD	3.3	D: ±0.5 nH	30	0.030	14	2000	6
	LQW15AN3N3G8ZD	3.3	G: ±2%	30	0.030	14	2000	6
	LQW15AN3N4B8ZD	3.4	B: ±0.1 nH	30	0.030	10	1950	6
	LQW15AN3N4C8ZD	3.4	C: ±0.2 nH	30	0.030	10	1950	6
	LQW15AN3N4D8ZD	3.4	D: ±0.5 nH	30	0.030	10	1950	6
	LQW15AN3N4G8ZD	3.4	G: ±2%	30	0.030	10	1950	6
	LQW15AN3N5B8ZD	3.5	B: ±0.1 nH	30	0.030	10	1950	6
	LQW15AN3N5C8ZD	3.5	C: ±0.2 nH	30	0.030	10	1950	6
	LQW15AN3N5D8ZD	3.5	D: ±0.5 nH	30	0.030	10	1950	6
	LQW15AN3N5G8ZD	3.5	G: ±2%	30	0.030	10	1950	6
	LQW15AN3N6B8ZD	3.6	B: ±0.1 nH	30	0.030	10	1950	6
	LQW15AN3N6C8ZD	3.6	C: ±0.2 nH	30	0.030	10	1950	6
	LQW15AN3N6D8ZD	3.6	D: ±0.5 nH	30	0.030	10	1950	6
	LQW15AN3N6G8ZD	3.6	G: ±2%	30	0.030	10	1950	6
	LQW15AN3N7B8ZD	3.7	B: ±0.1 nH	35	0.030	10	1950	6
	LQW15AN3N7C8ZD	3.7	C: ±0.2 nH	35	0.030	10	1950	6
	LQW15AN3N7D8ZD	3.7	D: ±0.5 nH	35	0.030	10	1950	6
	LQW15AN3N7G8ZD	3.7	G: ±2%	35	0.030	10	1950	6
	LQW15AN3N8B8ZD	3.8	B: ±0.1 nH	35	0.030	10	1950	6
	LQW15AN3N8C8ZD	3.8	C: ±0.2 nH	35	0.030	10	1950	6
	LQW15AN3N8D8ZD	3.8	D: ±0.5 nH	35	0.030	10	1950	6
	LQW15AN3N8G8ZD	3.8	G: ±2%	35	0.030	10	1950	6
	LQW15AN3N9B8ZD	3.9	B: ±0.1 nH	35	0.030	10	1950	6
	LQW15AN3N9C8ZD	3.9	C: ±0.2 nH	35	0.030	10	1950	6
	LQW15AN3N9D8ZD	3.9	D: ±0.5 nH	35	0.030	10	1950	6
	LQW15AN3N9G8ZD	3.9	G: ±2%	35	0.030	10	1950	6
	LQW15AN4N0B8ZD	4.0	B: ±0.1 nH	30	0.030	10	1950	6
	LQW15AN4N0C8ZD	4.0	C: ±0.2 nH	30	0.030	10	1950	6
	LQW15AN4N0D8ZD	4.0	D: ±0.5 nH	30	0.030	10	1950	6

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Customer	Murata	Indu Nominal	uctance	Q	DC	Self-resonant	Rated	ESD
Part number	Part number	value (nH)	Tolerance	(Min.)	resistance (Ω max.)	frequency (GHz min.)	current (mA) ^{*1}	Rank 6: 25 kV
	LQW15AN4N0G8ZD	4.0	G: ±2%	30	0.030	10	1950	6
	LQW15AN4N1B8ZD	4.1	B: ±0.1 nH	30	0.044	9.6	1800	6
	LQW15AN4N1C8ZD	4.1	C: ±0.2 nH	30	0.044	9.6	1800	6
	LQW15AN4N1D8ZD	4.1	D: ±0.5 nH	30	0.044	9.6	1800	6
	LQW15AN4N1G8ZD	4.1	G: ±2%	30	0.044	9.6	1800	6
	LQW15AN4N2B8ZD	4.2	B: ±0.1 nH	30	0.044	9.6	1800	6
	LQW15AN4N2C8ZD	4.2	C: ±0.2 nH	30	0.044	9.6	1800	6
	LQW15AN4N2D8ZD	4.2	D: ±0.5 nH	30	0.044	9.6	1800	6
	LQW15AN4N2G8ZD	4.2	G: ±2%	30	0.044	9.6	1800	6
	LQW15AN4N3B8ZD	4.3	B: ±0.1 nH	32	0.044	9.6	1800	6
	LQW15AN4N3C8ZD	4.3	C: ±0.2 nH	32	0.044	9.6	1800	6
	LQW15AN4N3D8ZD	4.3	D: ±0.5 nH	32	0.044	9.6	1800	6
	LQW15AN4N3G8ZD	4.3	G: ±2%	32	0.044	9.6	1800	6
	LQW15AN4N4B8ZD	4.4	B: ±0.1 nH	34	0.052	9.6	1600	6
	LQW15AN4N4C8ZD	4.4	C: ±0.2 nH	34	0.052	9.6	1600	6
	LQW15AN4N4D8ZD	4.4	D: ±0.5 nH	34	0.052	9.6	1600	6
	LQW15AN4N4G8ZD	4.4	G: ±2%	34	0.052	9.6	1600	6
	LQW15AN4N5B8ZD	4.5	B: ±0.1 nH	34	0.060	9.6	1450	6
	LQW15AN4N5C8ZD	4.5	C: ±0.2 nH	34	0.060	9.6	1450	6
	LQW15AN4N5D8ZD	4.5	D: ±0.5 nH	34	0.060	9.6	1450	6
	LQW15AN4N5G8ZD	4.5	G: ±2%	34	0.060	9.6	1450	6
	LQW15AN4N6B8ZD	4.6	B: ±0.1 nH	32	0.060	9.6	1450	6
	LQW15AN4N6C8ZD	4.6	C: ±0.2 nH	32	0.060	9.6	1450	6
	LQW15AN4N6D8ZD	4.6	D: ±0.5 nH	32	0.060	9.6	1450	6
	LQW15AN4N6G8ZD	4.6	G: ±2%	32	0.060	9.6	1450	6
	LQW15AN4N7B8ZD	4.7	B: ±0.1 nH	31	0.071	8.0	1200	6
	LQW15AN4N7C8ZD	4.7	C: ±0.2 nH	31	0.071	8.0	1200	6
	LQW15AN4N7D8ZD	4.7	D: ±0.5 nH	31	0.071	8.0	1200	6
	LQW15AN4N7G8ZD	4.7	G: ±2%	31	0.071	8.0	1200	6
	LQW15AN4N8B8ZD	4.8	B: ±0.1 nH	30	0.071	8.0	1200	6
	LQW15AN4N8C8ZD	4.8	C: ±0.2 nH	30	0.071	8.0	1200	6
	LQW15AN4N8D8ZD	4.8	D: ±0.5 nH	30	0.071	8.0	1200	6
	LQW15AN4N8G8ZD	4.8	G: ±2%	30	0.071	8.0	1200	6
	LQW15AN4N9B8ZD	4.9	B: ±0.1 nH	27	0.071	8.0	1200	6
	LQW15AN4N9C8ZD	4.9	C: ±0.2 nH	27	0.071	8.0	1200	6
	LQW15AN4N9D8ZD	4.9	D: ±0.5 nH	27	0.071	8.0	1200	6
	LQW15AN4N9G8ZD	4.9	G: ±2%	27	0.071	8.0	1200	6
	LQW15AN5N0B8ZD	5.0	B: ±0.1 nH	32	0.040	10.0	1770	6
	LQW15AN5N0C8ZD	5.0	C: ±0.2 nH	32	0.040	10.0	1770	6
	LQW15AN5N0D8ZD	5.0	D: ±0.5 nH	32	0.040	10.0	1770	6
	LQW15AN5N0G8ZD	5.0	G: ±2%	32	0.040	10.0	1770	6
	LQW15AN5N1B8ZD	5.1	B: ±0.1 nH	35	0.040	8.0	1770	6
	LQW15AN5N1C8ZD	5.1	C: ±0.2 nH	35	0.040	8.0	1770	6
	LQW15AN5N1D8ZD	5.1	D: ±0.5 nH	35	0.040	8.0	1770	6
	LQW15AN5N1G8ZD	5.1	G: ±2%	35	0.040	8.0	1770	6
	LQW15AN5N2B8ZD	5.2	B: ±0.1 nH	35	0.040	8.0	1770	6

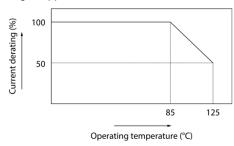
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Customer Part number	Murata Part number	Nominal value (nH)	uctance Tolerance	Q (Min.)	DC resistance (Ω max.)	Self-resonant frequency (GHz min.)	Rated current (mA)*1	ESD Rank 6: 25 k
	LQW15AN5N2C8ZD	5.2	C: ±0.2 nH	35	0.040	8.0	1770	6
	LQW15AN5N2D8ZD	5.2	D: ±0.5 nH	35	0.040	8.0	1770	6
	LQW15AN5N2G8ZD	5.2	G: ±2%	35	0.040	8.0	1770	6
	LQW15AN5N3B8ZD	5.3	B: ±0.1 nH	35	0.040	8.0	1770	6
	LQW15AN5N3C8ZD	5.3	C: ±0.2 nH	35	0.040	8.0	1770	6
	LQW15AN5N3D8ZD	5.3	D: ±0.5 nH	35	0.040	8.0	1770	6
	LQW15AN5N3G8ZD	5.3	G: ±2%	35	0.040	8.0	1770	6
	LQW15AN5N4B8ZD	5.4	B: ±0.1 nH	35	0.040	8.0	1770	6
	LQW15AN5N4C8ZD	5.4	C: ±0.2 nH	35	0.040	8.0	1770	6
	LQW15AN5N4D8ZD	5.4	D: ±0.5 nH	35	0.040	8.0	1770	6
	LQW15AN5N4G8ZD	5.4	G: ±2%	35	0.040	8.0	1770	6
	LQW15AN5N5B8ZD	5.5	B: ±0.1 nH	35	0.040	8.0	1770	6
	LQW15AN5N5C8ZD	5.5	C: ±0.2 nH	35	0.040	8.0	1770	6
	LQW15AN5N5D8ZD	5.5	D: ±0.5 nH	35	0.040	8.0	1770	6
	LQW15AN5N5G8ZD	5.5	G: ±2%	35	0.040	8.0	1770	6
	LQW15AN5N6B8ZD	5.6	B: ±0.1 nH	35	0.040	8.0	1770	6
	LQW15AN5N6C8ZD	5.6	C: ±0.2 nH	35	0.040	8.0	1770	6
	LQW15AN5N6D8ZD	5.6	D: ±0.5 nH	35	0.040	8.0	1770	6
	LQW15AN5N6G8ZD	5.6	G: ±2%	35	0.040	8.0	1770	6
	LQW15AN5N7B8ZD	5.7	B: ±0.1 nH	30	0.040	8.0	1770	6
	LQW15AN5N7C8ZD	5.7	C: ±0.2 nH	30	0.040	8.0	1770	6
	LQW15AN5N7D8ZD	5.7	D: ±0.5 nH	30	0.040	8.0	1770	6
	LQW15AN5N7G8ZD	5.7	G: ±2%	30	0.040	8.0	1770	6
	LQW15AN5N8B8ZD	5.8	B: ±0.1 nH	30	0.040	8.0	1770	6
	LQW15AN5N8C8ZD	5.8	C: ±0.2 nH	30	0.040	8.0	1770	6
	LQW15AN5N8D8ZD	5.8	D: ±0.5 nH	30	0.040	8.0	1770	6
	LQW15AN5N8G8ZD	5.8	G: ±2%	30	0.040	8.0	1770	6
	LQW15AN5N9B8ZD	5.9	B: ±0.1 nH	30	0.040	8.0	1770	6
	LQW15AN5N9C8ZD	5.9	C: ±0.2 nH	30	0.040	8.0	1770	6
	LQW15AN5N9D8ZD	5.9	D: ±0.5 nH	30	0.040	8.0	1770	6
	LQW15AN5N9G8ZD	5.9	G: ±2%	30	0.040	8.0	1770	6
	LQW15AN6N0B8ZD	6.0	B: ±0.1 nH	32	0.056	8.0	1600	6
	LQW15AN6N0C8ZD	6.0	C: ±0.2 nH	32	0.056	8.0	1600	6
	LQW15AN6N0D8ZD	6.0	D: ±0.5 nH	32	0.056	8.0	1600	6
	LQW15AN6N0G8ZD	6.0	G: ±2%	32	0.056	8.0	1600	6
	LQW15AN6N1B8ZD	6.1	B: ±0.1 nH	32	0.056	8.0	1600	6
	LQW15AN6N1C8ZD	6.1	C: ±0.2 nH	32	0.056	8.0	1600	6
	LQW15AN6N1D8ZD	6.1	D: ±0.5 nH	32	0.056	8.0	1600	6
	LQW15AN6N1G8ZD	6.1	G: ±2%	32	0.056	8.0	1600	6
	LQW15AN6N2B8ZD	6.2	B: ±0.1 nH	33	0.056	8.0	1600	6
	LQW15AN6N2C8ZD	6.2	C: ±0.1 nH	33	0.056	8.0	1600	6
	LQW15AN6N2D8ZD	6.2	D: ±0.5 nH	33	0.056	8.0	1600	6
	LQW15AN6N2G8ZD	6.2	G: ±2%	33	0.056	8.0	1600	6
	LQW15AN6N3G8ZD	6.3	G: ±2%	32	0.057	7.8	1600	6
	LQW15AN6N3J8ZD	6.3	J: ±5%	32	0.057	7.8	1600	6
	LQW15AN6N3J8ZD	6.4	G: ±5%	33	0.057	7.0	1380	6

		Indu	uctance		DC	Self-resonant	Rated	ESD
Customer Part number	Murata Part number	Nominal	T-1	Q (Min.)	resistance	frequency	current	Rank
rait ilullibei	Fait Hullibei	value (nH)	Tolerance	(IVIIII.)	(Ω max.)	(GHz min.)	(mA)*1	6: 25 kV
	LQW15AN6N4J8ZD	6.4	J: ±5%	33	0.065	7.0	1380	6
	LQW15AN6N5G8ZD	6.5	G: ±2%	32	0.065	7.0	1380	6
	LQW15AN6N5J8ZD	6.5	J: ±5%	32	0.065	7.0	1380	6
	LQW15AN6N6G8ZD	6.6	G: ±2%	30	0.078	7.0	1280	6
	LQW15AN6N6J8ZD	6.6	J: ±5%	30	0.078	7.0	1280	6
	LQW15AN6N7G8ZD	6.7	G: ±2%	30	0.078	7.0	1280	6
	LQW15AN6N7J8ZD	6.7	J: ±5%	30	0.078	7.0	1280	6
	LQW15AN6N8G8ZD	6.8	G: ±2%	30	0.068	7.0	1450	6
	LQW15AN6N8J8ZD	6.8	J: ±5%	30	0.068	7.0	1450	6
	LQW15AN6N9G8ZD	6.9	G: ±2%	32	0.069	8.5	1420	6
	LQW15AN6N9J8ZD	6.9	J: ±5%	32	0.069	8.5	1420	6
	LQW15AN7N0G8ZD	7.0	G: ±2%	33	0.069	8.0	1420	6
	LQW15AN7N0J8ZD	7.0	J: ±5%	33	0.069	8.0	1420	6
	LQW15AN7N1G8ZD	7.1	G: ±2%	32	0.069	7.0	1420	6
	LQW15AN7N1J8ZD	7.1	J: ±5%	32	0.069	7.0	1420	6
	LQW15AN7N2G8ZD	7.2	G: ±2%	32	0.050	7.0	1700	6
	LQW15AN7N2J8ZD	7.2	J: ±5%	32	0.050	7.0	1700	6
	LQW15AN7N3G8ZD	7.3	G: ±2%	32	0.050	7.0	1700	6
	LQW15AN7N3J8ZD	7.3	J: ±5%	32	0.050	7.0	1700	6
	LQW15AN7N4G8ZD	7.4	G: ±2%	30	0.050	7.0	1700	6
	LQW15AN7N4J8ZD	7.4	J: ±5%	30	0.050	7.0	1700	6
	LQW15AN7N5G8ZD	7.5	G: ±2%	35	0.050	7.0	1700	6
	LQW15AN7N5J8ZD	7.5	J: ±5%	35	0.050	7.0	1700	6
	LQW15AN7N6G8ZD	7.6	G: ±2%	30	0.050	7.0	1700	6
	LQW15AN7N6J8ZD	7.6	J: ±5%	30	0.050	7.0	1700	6
	LQW15AN7N7G8ZD	7.7	G: ±2%	30	0.050	7.0	1700	6
	LQW15AN7N7J8ZD	7.7	J: ±5%	30	0.050	7.0	1700	6
	LQW15AN7N8G8ZD	7.8	G: ±2%	30	0.050	7.0	1700	6
	LQW15AN7N8J8ZD	7.8	J: ±5%	30	0.050	7.0	1700	6
	LQW15AN7N9G8ZD	7.9	G: ±2%	30	0.050	7.0	1700	6
	LQW15AN7N9J8ZD	7.9	J: ±5%	30	0.050	7.0	1700	6
	LQW15AN8N0G8ZD	8.0	G: ±2%	30	0.050	7.0	1700	6
	LQW15AN8N0J8ZD	8.0	J: ±5%	30	0.050	7.0	1700	6
	LQW15AN8N1G8ZD	8.1	G: ±2%	32	0.069	6.5	1500	6
	LQW15AN8N1J8ZD	8.1	J: ±5%	32	0.069	6.5	1500	6
	LQW15AN8N2G8ZD	8.2	G: ±2%	32	0.069	6.5	1500	6
	LQW15AN8N2J8ZD	8.2	J: ±5%	32	0.069	6.5	1500	6
	LQW15AN8N3G8ZD	8.3	G: ±2%	32	0.069	6.5	1500	6
	LQW15AN8N3J8ZD	8.3	J: ±5%	32	0.069	6.5	1500	6
	LQW15AN8N4G8ZD	8.4	G: ±2%	32	0.069	6.5	1500	6
	LQW15AN8N4J8ZD	8.4	J: ±5%	32	0.069	6.5	1500	6
	LQW15AN8N5G8ZD	8.5	G: ±2%	32	0.069	6.5	1500	6
	LQW15AN8N5J8ZD	8.5	J: ±5%	32	0.069	6.5	1500	6
	LQW15AN8N6G8ZD	8.6	G: ±2%	31	0.070	6.5	1420	6
	LQW15AN8N6J8ZD	8.6	J: ±5%	31	0.070	6.5	1420	6
	LQW15AN8N7G8ZD	8.7	G: ±2%	31	0.070	6.5	1420	6

	1							
Customer	Murata	Indu Nominal	ıctance	Q	DC	Self-resonant	Rated	ESD
Part number	Part number	value (nH)	Tolerance	(Min.)	resistance (Ω max.)	frequency (GHz min.)	current (mA) ^{*1}	Rank 6: 25 kV
	LQW15AN8N7J8ZD	8.7	J: ±5%	31	0.070	6.5	1420	6
	LQW15AN8N8G8ZD	8.8	G: ±2%	31	0.070	6.5	1420	6
	LQW15AN8N8J8ZD	8.8	J: ±5%	31	0.070	6.5	1420	6
	LQW15AN8N9G8ZD	8.9	G: ±2%	31	0.070	6.5	1420	6
	LQW15AN8N9J8ZD	8.9	J: ±5%	31	0.070	6.5	1420	6
	LQW15AN9N0G8ZD	9.0	G: ±2%	30	0.070	6.5	1420	6
	LQW15AN9N0J8ZD	9.0	J: ±5%	30	0.070	6.5	1420	6
	LQW15AN9N1G8ZD	9.1	G: ±2%	32	0.080	6.5	1400	6
	LQW15AN9N1J8ZD	9.1	J: ±5%	32	0.080	6.5	1400	6
	LQW15AN9N2G8ZD	9.2	G: ±2%	32	0.081	6.0	1400	6
	LQW15AN9N2J8ZD	9.2	J: ±5%	32	0.081	6.0	1400	6
	LQW15AN9N3G8ZD	9.3	G: ±2%	34	0.081	6.0	1400	6
	LQW15AN9N3J8ZD	9.3	J: ±5%	34	0.081	6.0	1400	6
	LQW15AN9N4G8ZD	9.4	G: ±2%	33	0.081	6.0	1400	6
	LQW15AN9N4J8ZD	9.4	J: ±5%	33	0.081	6.0	1400	6
	LQW15AN9N5G8ZD	9.5	G: ±2%	32	0.081	6.0	1400	6
	LQW15AN9N5J8ZD	9.5	J: ±5%	32	0.081	6.0	1400	6
	LQW15AN9N6G8ZD	9.6	G: ±2%	33	0.081	6.0	1400	6
	LQW15AN9N6J8ZD	9.6	J: ±5%	33	0.081	6.0	1400	6
	LQW15AN9N7G8ZD	9.7	G: ±2%	33	0.081	6.0	1400	6
	LQW15AN9N7J8ZD	9.7	J: ±5%	33	0.081	6.0	1400	6
	LQW15AN9N8G8ZD	9.8	G: ±2%	34	0.081	6.0	1400	6
	LQW15AN9N8J8ZD	9.8	J: ±5%	34	0.081	6.0	1400	6
	LQW15AN9N9G8ZD	9.9	G: ±2%	32	0.081	6.0	1400	6
	LQW15AN9N9J8ZD	9.9	J: ±5%	32	0.081	6.0	1400	6
	LQW15AN10NG8ZD	10	G: ±2%	31	0.081	6.0	1400	6
	LQW15AN10NJ8ZD	10	J: ±5%	31	0.081	6.0	1400	6
	LQW15AN11NG8ZD	11	G: ±2%	32	0.083	6.2	1400	6
	LQW15AN11NJ8ZD	11	J: ±5%	32	0.083	6.2	1400	6
	LQW15AN12NG8ZD	12	G: ±2%	30	0.093	5.2	1240	6
	LQW15AN12NJ8ZD	12	J: ±5%	30	0.093	5.2	1240	6
	LQW15AN13NG8ZD	13	G: ±2%	30	0.093	5.2	1240	6
	LQW15AN13NJ8ZD	13	J: ±5%	30	0.093	5.2	1240	6
	LQW15AN14NG8ZD	14	G: ±2%	31	0.111	5.2	1150	6
	LQW15AN14NJ8ZD	14	J: ±5%	31	0.111	5.2	1150	6
	LQW15AN15NG8ZD	15	G: ±2%	31	0.114	5.5	1150	6
	LQW15AN15NJ8ZD	15	J: ±5%	31	0.114	5.5	1150	6
	LQW15AN16NG8ZD	16	G: ±2%	31	0.126	5.0	1000	6
	LQW15AN16NJ8ZD	16	J: ±5%	31	0.126	5.0	1000	6
	LQW15AN17NG8ZD	17	G: ±2%	30	0.126	5.0	1000	6
	LQW15AN17NJ8ZD	17	J: ±5%	30	0.126	5.0	1000	6
	LQW15AN18NG8ZD	18	G: ±2%	30	0.130	5.2	1050	6
	LQW15AN18NJ8ZD	18	J: ±5%	30	0.130	5.2	1050	6
	LQW15AN19NG8ZD	19	G: ±2%	30	0.156	5.0	920	6
	LQW15AN19NJ8ZD	19	J: ±5%	30	0.156	5.0	920	6
	LQW15AN20NG8ZD	20	G: ±2%	30	0.186	4.5	800	6

		Indu	uctance					
Customer Part number	Murata Part number	Nominal value (nH)	Tolerance	Q (Min.)	DC resistance (Ω max.)	Self-resonant frequency (GHz min.)	Rated current (mA)*1	ESD Rank 6: 25 kV
	LQW15AN20NJ8ZD	20	J: ±5%	30	0.186	4.5	800	6
	LQW15AN21NG8ZD	21	G: ±2%	30	0.202	4.5	780	6
	LQW15AN21NJ8ZD	21	J: ±5%	30	0.202	4.5	780	6
	LQW15AN22NG8ZD	22	G: ±2%	30	0.202	4.5	780	6
	LQW15AN22NJ8ZD	22	J: ±5%	30	0.202	4.5	780	6
	LQW15AN23NG8ZD	23	G: ±2%	29	0.201	4.5	760	6
	LQW15AN23NJ8ZD	23	J: ±5%	29	0.201	4.5	760	6
	LQW15AN24NG8ZD	24	G: ±2%	31	0.212	4.0	770	6
	LQW15AN24NJ8ZD	24	J: ±5%	31	0.212	4.0	770	6
	LQW15AN25NG8ZD	25	G: ±2%	31	0.221	4.1	750	6
	LQW15AN25NJ8ZD	25	J: ±5%	31	0.221	4.1	750	6
	LQW15AN26NG8ZD	26	G: ±2%	29	0.282	4.1	720	6
	LQW15AN26NJ8ZD	26	J: ±5%	29	0.282	4.1	720	6
	LQW15AN27NG8ZD	27	G: ±2%	30	0.288	4.0	680	6
	LQW15AN27NJ8ZD	27	J: ±5%	30	0.288	4.0	680	6
	LQW15AN30NG8ZD	30	G: ±2%	30	0.309	3.8	660	6
	LQW15AN30NJ8ZD	30	J: ±5%	30	0.309	3.8	660	6
	LQW15AN33NG8ZD	33	G: ±2%	30	0.336	3.6	620	6
	LQW15AN33NJ8ZD	33	J: ±5%	30	0.336	3.6	620	6
	LQW15AN36NG8ZD	36	G: ±2%	30	0.431	3.5	540	6
	LQW15AN36NJ8ZD	36	J: ±5%	30	0.431	3.5	540	6
	LQW15AN39NG8ZD	39	G: ±2%	28	0.456	3.4	530	6
	LQW15AN39NJ8ZD	39	J: ±5%	28	0.456	3.4	530	6
	LQW15AN43NG8ZD	43	G: ±2%	30	0.516	3.4	515	6
	LQW15AN43NJ8ZD	43	J: ±5%	30	0.516	3.4	515	6
	LQW15AN47NG8ZD	47	G: ±2%	25	0.648	3.2	440	6
	LQW15AN47NJ8ZD	47	J: ±5%	25	0.648	3.2	440	6
	LQW15AN51NG8ZD	51	G: ±2%	25	0.696	2.9	415	6
	LQW15AN51NJ8ZD	51	J: ±5%	25	0.696	2.9	415	6
	LQW15AN53NG8ZD	53	G: ±2%	25	0.696	2.9	415	6
	LQW15AN53NJ8ZD	53	J: ±5%	25	0.696	2.9	415	6
	LQW15AN56NG8ZD	56	G: ±2%	25	0.996	2.9	340	6
	LQW15AN56NJ8ZD	56	J: ±5%	25	0.996	2.9	340	6
	LQW15AN68NG8ZD	68	G: ±2%	25	1.128	2.5	320	6
	LQW15AN68NJ8ZD	68	J: ±5%	25	1.128	2.5	320	6
	LQW15AN75NG8ZD	75	G: ±2%	25	1.224	2.4	320	6
	LQW15AN75NJ8ZD	75	J: ±5%	25	1.224	2.4	320	6

^{*1} As shown in the diagram below, derating is applied to the rated current based on the operating temperature.

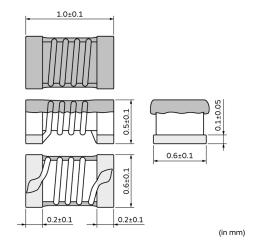




4. Testing Conditions

Unless otherwise specified	Temperature: ordinary temperature (15°C to 35°C) Humidity: ordinary humidity [25% to 85% (RH)]
	Temperature: 20°C±2°C Humidity: 60% to 70% (RH) Atmospheric pressure: 86 kPa to 106 kPa

5. Appearance and Dimensions



Unit mass (typical value): 0.0009 g

6. Marking

No marking.





7. Electrical Performance

No.	Item	Specification		Test method		
7.1	Inductance	Meet chapter 3 ratings.	Measuring equipme equivalent Measuring frequence	nt: Keysight E4991A or the		
			Inductance	100 MHz		
			Q	250 MHz 1.3 nH to 43 nH		
				200 MHz 47 nH to 75 nH		
			Measuring conditions: Measurement signal level: Approx. 0 dBm Measurement terminal distance: 0.5 mm Electrical length: 10.0 mm Measuring fixture: Keysight 16197A Position the chip coil under test as shown in the measuring example below and connect it to the electrode by applying weight. Measurement example:			
7.2	Q	Meet chapter 3 ratings.				
				Product		
				see "Electrical performance: or inductance/Q" in the chapter		
7.3	DC resistance	Meet chapter 3 ratings.	Measuring equipme	nt: digital multimeter		
7.4	Self-resonant frequency	Meet chapter 3 ratings.	Measuring equipme equivalent	nt: Keysight N5230A or the		
7.5	Rated current	Product temperature rise: 40°C max.	Apply the rated curr	ent specified in chapter 3.		

8. AEC-Q200 Requirement

8.1 Performance [based on table 5 for magnetics (inductors/transformer) AEC-Q200 Rev. D issued June 1, 2010]

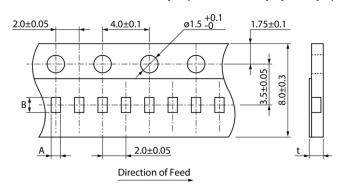
		AEC-Q200	Murata specification/deviation				
No.	Stress	Test method	Warata Specification/deviation				
3	High temperature exposure	1000 h at 125°C Set for 24 h at room condition, then measured.	Ta	et table A after testing. able A Appearance Inductance change rate (at 100 MHz)	No damage Within ±5%		
4	Temperature cycling	1000 cycles -40°C to +125°C Set for 24 h at room condition, then measured.	Ме	et table A after testing.			
7	Biased humidity	1000 h at 85°C, 85% (RH). Unpowered. Set for 24 h at room condition, then measured.	Ме	et table A after testing.			
8	Operational life	Apply 125°C 1000 h Set for 24 h at room condition, then measured.	Ме	et table A after testing.			
9	External visual	Visual inspection	No	abnormalities			



AEC-Q200			Manada an asifi addian/dayiadian	
No.	Stress	Test method	Murata specification/deviation	
10	Physical dimension	Meet chapter 5, "Appearance and Dimensions".	No defects	
12	Resistance to solvents	Per MIL-STD-202 Method 215	Not applicable	
13	Mechanical shock	Per MIL-STD-202 Method 213 Condition C: 100 g's (0.98 N), 6 ms, half sine, 12.3 ft/s	Meet table A after testing.	
14	Vibration	5 g's (0.049 N) for 20 min, 12 cycles each of 3 orientations Test from 10 Hz to 2000 Hz	Meet table A after testing.	
15	Resistance to soldering heat	No-heating Solder temperature 260°C±5°C Immersion time 10 s	Pre-heating: 150°C±10°C, 60 s to 90 s Meet table A after testing.	
17	ESD	Per AEC-Q200-002	ESD rank: Refer to chapter 3 ratings. Meet table A after testing.	
18	Solderbility	Per J-STD-002	Method b: not applicable 95% of the terminations is to be soldered (except exposed wire).	
19	Electrical characterization	Measured: inductance	No defects	
20	Flammability	Per UL-94	Not applicable	
21	Board flex	d flex Epoxy-PCB (1.6 mm) Deflection 2 mm (min.) Holding time 60 s	Meet table B after testing. Table B	
			Appearance No damage	
			DC resistance change rate Within ±10%	
22	Terminal strength	Per AEC-Q200-006 A force of 17.7 N for 60 s	No defects Murata deviation request: 5 N for 60 s	

9. Specification of Packaging

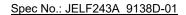
9.1 Appearance and dimensions of tape (8 mm width/paper tape)



	Α	0.75±0.03	
	В	1.180±0.03	
	t	0.80 max.	
•		(in	mm)

9.2 Taping specifications

Packing quantity (Standard quantity)	10000 pcs/reel
Packing method	The products are placed in embossed cavities of a base tape and sealed by a cover tape.
Feed hole position	The feed holes on the base tape are on the right side when the cover tape is pulled toward the user.
Joint	The base tape and the cover tape are seamless.
Number of missing products	Number of missing products within 0.025% of the number per reel or 1 pc., whichever is greater, and are not continuous. The specified quantity per reel is kept.

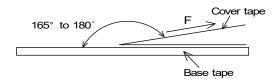


9.3 Break down force of tape

Break down force of cover tape

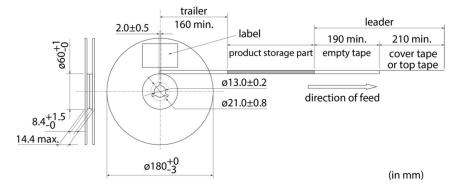
9.4 Peeling off force of cover tape

Speed of peeling off	300 mm/min	
Peeling off force	0.1 N to 0.6 N (The lower limit is for typical value.)	



9.5 Dimensions of leader section, trailer section and reel

A vacant section is provided in the leader (start) section and trailer (end) section of the tape for the product. The leader section is further provided with an area consisting only of the cover tape (or top tape). (See the diagram below.)



9.6 Marking for reel

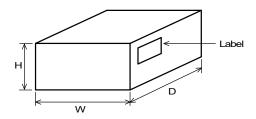
Customer part number, Murata part number, inspection number (*1), RoHS marking (*2), quantity, etc.

Customer part number, wurata par	it number, inspection number (1), Rons marking (2), quantity, etc.
*1 Expression of inspection No.:	(1) Factory code (2) Date
(1) (2) (3)	First digit: year/last digit of year Second digit: month/Jan. to Sep.→1 to 9, Oct. to Dec.→O, N, D Third, Fourth digit: day (3) Serial No.
*2 Expression of RoHS marking: ROHS- Y (△) (2)	(1) RoHS regulation conformity (2) Murata classification number

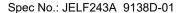
9.7 Marking on outer box (corrugated box)

Customer name, purchasing order number, customer part number, Murata part number, RoHS marking (*2), quantity, etc.

9.8 Specification of outer box



Dimensions of outer box (mm)			Standard reel quantity
W	D	Н	in outer box (reel)
186	186	93	5
* Above outer box size is typical. It depends on a quantity of an order.			





10. ACaution

10.1 Restricted applications

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects which might directly cause damage to the third party's life, body or property.

(1) Aircraft equipment (6) Disaster/crime prevention equipment

(2) Aerospace equipment (7) Traffic signal equipment

(3) Undersea equipment (8) Transportation equipment (trains, ships, etc.)

(4) Power plant control equipment (9) Data-processing equipment

(5) Medical equipment (10) Applications of similar complexity and/or reliability requirements

to the applications listed in the above

10.2 Precautions on rating

Do not use the products in excess of their rated current. Doing so may cause the product to generate heat, resulting in short circuit between wires, wire breakage, or melted solder, which may cause dropping of parts.

10.3 Fail-safe

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

10.4 Corrosive gas

Please refrain from use since contact with environments with corrosive gases (sulfur gas [hydrogen sulfide, sulfur dioxide, etc.], chlorine, ammonia, etc.) or oils (cutting oil, silicone oil, etc.) that have come into contact with the previously stated corrosive gas environment will result in deterioration of product quality or an open from deterioration due to corrosion of product electrode, etc. We will not bear any responsibility for use under these environments.

11. Precautions for Use

This product is for use only with reflow soldering. It is designed to be mounted by soldering. If you want to use other mounting method, for example, using a conductive adhesive, please consult us beforehand.

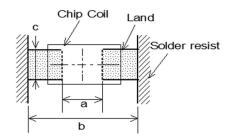
Also, if repeatedly subjected to temperature cycles or other thermal stress, due to the difference in the coefficient of thermal expansion with the mounting substrate, the solder (solder fillet part) in the mounting part may crack.

The occurrence of cracks due to thermal stress is affected by the size of the land where mounted, the solder volume, and the heat dissipation of the mounting substrate. Carefully design it when a large change in ambient temperature is assumed.

11.1 Land dimensions

The following diagram shows the recommended land dimensions for reflow soldering.

The land dimensions are designed in consideration of electrical characteristics and mountability. Use of other land dimensions may preclude achievement of performance. In some cases, it may result in poor solderability, including positional shift. If you use other land pattern, consider it adequately.



а	0.6	
b	1.42	
С	0.66	
•	(in m	m)

11.2 Flux and solder used

Flux	 Use a rosin-based flux that includes an activator with a chlorine conversion value of 0.06(wt)% to 0.1(wt)%. Do not use a highly acidic flux with a halide content exceeding 0.2(wt)% (chlorine conversion value). Do not use a water-soluble flux.
Solder	 Use Sn-3.0Ag-0.5Cu solder. Standard thickness of solder paste: 50 μm to 100 μm

If you want to use a flux other than the above, please consult our technical department.

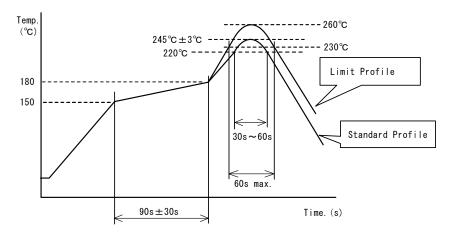


11.3 Soldering conditions (reflow)

• Pre-heating should be in such a way that the temperature difference between solder and product surface is limited to 150°C max.

Cooling into solvent after soldering also should be in such a way that the temperature difference is limited to 100°C max. Insufficient pre-heating may cause cracks on the product, resulting in the deterioration of product quality.

Standard soldering profile and the limit soldering profile is as follows.
 The excessive limit soldering conditions may cause leaching of the electrode and/or resulting in the deterioration of product quality.



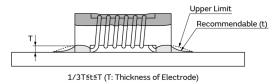
	Standard profile	Limit profile
Pre-heating	150°C to 180°C/90 s±30 s	150°C to 180°C/90 s±30 s
Heating	Above 220°C/30 s to 60 s	Above 230°C/60 s max.
Peak temperature	245°C±3°C	260°C/10 s
Number of reflow cycles	2 times	2 times

11.4 Reworking with soldering iron

Do not perform reworking with a soldering iron on this product.

11.5 Solder volume

Solder shall be used not to increase the volume too much.



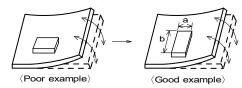
An increased solder volume increases mechanical stress on the product. Exceeding solder volume may cause the failure of mechanical or electrical performance.

11.6 Product's location

The following shall be considered when designing and laying out PCBs.

(1) PCB shall be designed so that products are not subject to mechanical stress due to warping the board. [Products direction]

Products shall be located in the sideways direction (length: a < b) to the mechanical stress.





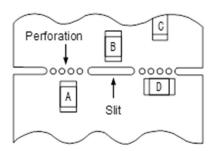
(2) Components location on PCB separation

It is effective to implement the following measures, to reduce stress in separating the board.

It is best to implement all of the following three measures; however, implement as many measures as possible to reduce stress.

Contents of measures	Stress level
(1) Turn the mounting direction of the component parallel to the board separation surface.	A > D*1
(2) Add slits in the board separation part.	A > B
(3) Keep the mounting position of the component away from the board separation surface.	A > C

^{*1} A > D is valid when stress is added vertically to the perforation as with hand separation. If a cutting disc is used, stress will be diagonal to the PCB, therefore A > D is invalid.

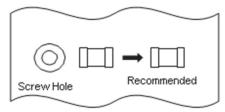


(3) Mounting components near screw holes

When a component is mounted near a screw hole, it may be affected by the board deflection that occurs during the tightening of the screw.

Mount the component in a position as far away from the screw holes as possible.

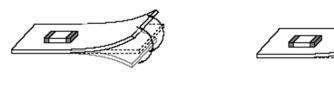
Bending

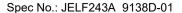


11.7 Handling of substrate

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting to the substrate when cropping the substrate, inserting and removing a connector from the substrate or tightening screw to the substrate. Excessive mechanical stress may cause cracking in the product.

Twisting







11.8 Cleaning

The product shall be cleaned under the following conditions.

- (1) The cleaning temperature shall be 60°C max. If isopropyl alcohol (IPA) is used, the cleaning temperature shall be 40°C max.
- (2) Perform ultrasonic cleaning under the following conditions. Exercise caution to prevent resonance phenomenon in mounted products and the PCB.

Item	Requirement	
Power	20 W/L max.	
Time	5 min max.	
Frequency	28 kHz to 40 kHz	

(3) Cleaner

Alcohol-based cleaner: IPA

Aqueous agent: PINE ALPHA ST-100S

- (4) There shall be no residual flux or residual cleaner. When using aqueous agent, rinse the product with deionized water adequately and completely dry it so that no cleaner is left.
- * For other cleaning, consult our technical department.

11.9 Storage and transportation

Storage period	Use the product within 12 months after delivery. If you do not use the product for more than 12 months, check solderability before using it.
Storage conditions	 The products shall be stored in a room not subject to rapid changes in temperature and humidity. The recommended temperature range is -10°C to +40°C. The recommended relative humidity range is 15% to 85%. Keeping the product in corrosive gases, such as sulfur, chlorine gas or acid, oxidizes the electrode, resulting in poor solderability or corrosion of the coil wire of the product. Do not keep products in bulk packaging. Doing so may cause collision between the products or between the products and other products, resulting in core chipping or wire breakage. Do not place the products directly on the floor; they should be placed on a palette so that they are not affected by humidity or dust. Avoid keeping the products in a place exposed to direct sunlight, heat or vibration.
Transportation	Excessive vibration and impact reduces the reliability of the products. Exercise caution when handling the products.

11.10 Resin coating

The inductance value may change due to high cure-stress of resin to be used for coating/molding products.

A wire breakage issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc. Some resin contains some impurities or chloride possible to generate chlorine by hydrolysis under some operating condition may cause corrosion of wire of coil, leading to wire breakage.

So, please pay your careful attention when you select resin in case of coating/molding the products with the resin. Prior to use the coating resin, please make sure no reliability issue is observed by evaluating products mounted on your board.

11.11 Handling of product

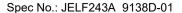
- Sharp material such as a pair of tweezers or other material such as bristles of cleaning brush, shall not be touched to the winding portion to prevent the breaking of wire.
- Mechanical shock should not be applied to the products mounted on the board to prevent the breaking of the core.

11.12 Handling with mounting equipment

- With some types of mounting equipment, a support pin pushes up the product from the bottom of the base (paper) tape when the product is sucked with the pick-up nozzle.
- When using this type of equipment, detach the support pin to prevent the breaking of wire on the product.
- In some cases, the laser recognition function of the mounting equipment may not recognize this product correctly. Please contact us when using laser recognition. (There is no problem with the permeation and reflection type.)

12. **A**Note

- (1) Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- (2) You are requested not to use our product deviating from the reference specifications.
- (3) The contents of this reference specification are subject to change without advance notice. Please approve our product specifications or transact the approval sheet for product specifications before ordering.

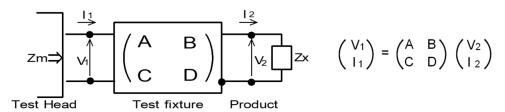


13. Appendix

Electrical performance: Measuring method for inductance/Q (Q measurement is applicable only when the Q value is included in the rating table.)

Perform measurement using the method described below. (Perform correction for the error deriving from the measuring terminal.)

(1) Residual elements and stray elements of the measuring terminal can be expressed by the F parameter for the 2-pole terminal as shown in the figure below.



(2) The product's impedance value (Zx) and measured impedance value (Zm) can be expressed as shown below, by using the respective current and voltage for input/output.

$$Zm = \frac{V_1}{I_1} \qquad Zx = \frac{V_2}{I_2}$$

(3) Thus, the relationship between the product's impedance value (Zx) and measured impedance value (Zm) is as follows.

		ere,				
	α	= D/A = 1				
		= B/D = Zsm	- (1 - Yom Zsm)) Zs	ss	
$Zx=\alpha \frac{Zm-\beta}{1-Zm}$	3 Г:	= C/A = Yom				
$Zx=\alpha \frac{1-Zm}{1-Zm}$	Γ					
		m: measured	d impedance of	shc	ort chip	
	Zs	s: residual in	npedance of sho	ort o	chip (0.556 nH)	
	Yo	Yom: measured admittance when measuring terminal is open				

(4) Calculate inductance Lx and Qx using the equations shown below.

-	enterior in adotation Extracting the equations of the in-						
	$Lx = \frac{Im (Zx)}{2\pi f}$	Lx: inductance of chip coil					
	$Qx = \frac{Im (Zx)}{Re (Zx)}$	Qx: Q of chip coil f: measuring frequency					

Mouser Electronics

Authorized Distributor

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Murata:

LQW15AN6N2G8ZI	LQW15AN5N2G8ZE	LQW15AN4N3C8ZD	LQW15AN8N3G8ZE	LQW15AN7N3G8ZD
LQW15AN15NG8ZD	LQW15AN5N6C8ZD	LQW15AN3N3C8ZD	LQW15AN1N7C8ZD	LQW15AN6N1G8ZD
LQW15AN4N5G8ZD	LQW15AN7N0G8ZD	LQW15AN2N9G8ZD	LQW15AN12NG8ZD	LQW15AN6N4G8ZD
LQW15AN9N6G8ZD	LQW15AN3N7G8ZD	LQW15AN5N3C8ZD	LQW15AN25NG8ZD	LQW15AN4N9C8ZD
LQW15AN5N9C8ZD	LQW15AN5N8G8ZD	LQW15AN4N8G8ZD	LQW15AN7N6G8ZD	LQW15AN6N7G8ZD
LQW15AN7N4G8ZD	LQW15AN16NG8ZD	LQW15AN18NG8ZD	LQW15AN4N6C8ZD	LQW15AN30NG8ZD
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LQW15AN8N6G8ZD	LQW15AN47NG8ZD	LQW15AN2N4C8ZD	LQW15AN3N7C8ZD	LQW15AN4N7C8ZD
LQW15AN39NG8ZD	LQW15AN8N4G8ZD	LQW15AN2N2C8ZD	LQW15AN9N7G8ZD	LQW15AN4N0C8ZD
LQW15AN56NG8ZD	LQW15AN7N7G8ZD	LQW15AN2N6G8ZD	LQW15AN8N0G8ZD	LQW15AN2N8C8ZD
LQW15AN2N3G8ZD	LQW15AN6N8G8ZD	LQW15AN10NG8ZD	LQW15AN20NG8ZD	LQW15AN6N1C8ZD
LQW15AN2N6C8ZD	LQW15AN8N7G8ZD	LQW15AN8N8G8ZD	LQW15AN6N6G8ZD	LQW15AN22NG8ZD
LQW15AN7N1G8ZD	LQW15AN5N4C8ZD	LQW15AN13NG8ZD	LQW15AN5N1C8ZD	LQW15AN4N3G8ZD
LQW15AN1N5C8ZD	LQW15AN5N9G8ZD	LQW15AN9N8G8ZD	LQW15AN3N0G8ZD	LQW15AN3N6G8ZD
LQW15AN4N2C8ZD	LQW15AN3N3G8ZD	LQW15AN4N0G8ZD	LQW15AN2N4G8ZD	LQW15AN1N3C8ZD
LQW15AN19NG8ZD	LQW15AN1N6C8ZD	LQW15AN6N0G8ZD	LQW15AN21NG8ZD	LQW15AN9N2G8ZD
LQW15AN5N8C8ZD	LQW15AN68NG8ZD	LQW15AN51NG8ZD	LQW15AN6N9G8ZD	LQW15AN5N3G8ZD
LQW15AN5N4G8ZD	LQW15AN7N2G8ZD	LQW15AN14NG8ZD	LQW15AN2N7G8ZD	LQW15AN23NG8ZD
LQW15AN2N9C8ZD	LQW15AN4N4C8ZD	LQW15AN3N8C8ZD	LQW15AN6N2C8ZD	LQW15AN7N8G8ZD
LQW15AN4N8C8ZD	LQW15AN4N1C8ZD	LQW15AN8N1G8ZD	LQW15AN9N1G8ZD	LQW15AN3N5G8ZD