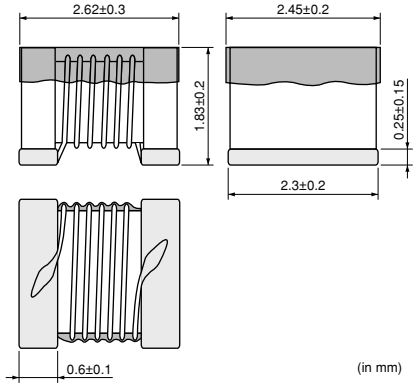
Chip Inductor (Chip Coil) for High Frequency Horizontal Wire Wound

LQW2UA Series (1008 Size)

■ Dimensions



(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	2000

■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQW2UAS12NJ00□	12nH ±5%	-	1000mA	0.09ohm	50	-	3300MHz
LQW2UAS18NJ00□	18nH ±5%	-	1000mA	0.11ohm	50	-	2500MHz
LQW2UAS22NJ00□	22nH ±5%	-	1000mA	0.12ohm	55	-	2400MHz
LQW2UAS27NJ00□	27nH ±5%	-	1000mA	0.13ohm	55	-	1600MHz
LQW2UAS33NJ00□	33nH ±5%	-	1000mA	0.14ohm	60	-	1600MHz
LQW2UAS39NJ00□	39nH ±5%	-	1000mA	0.15ohm	60	-	1500MHz
LQW2UAS47NJ00□	47nH ±5%	-	1000mA	0.16ohm	65	-	1500MHz
LQW2UAS56NJ00□	56nH ±5%	-	1000mA	0.18ohm	65	-	1300MHz
LQW2UAS68NJ00□	68nH ±5%	-	1000mA	0.2ohm	65	-	1300MHz
LQW2UAS82NJ00□	82nH ±5%	-	1000mA	0.22ohm	60	-	1000MHz
LQW2UASR10J00□	100nH ±5%	-	650mA	0.56ohm	60	-	1000MHz
LQW2UASR12J00□	120nH ±5%	-	650mA	0.63ohm	60	-	950MHz
LQW2UASR15J00□	150nH ±5%	-	580mA	0.7ohm	45	-	850MHz
LQW2UASR18J00□	180nH ±5%	-	620mA	0.77ohm	45	-	750MHz
LQW2UASR22J00□	220nH ±5%	-	500mA	0.84ohm	45	-	700MHz
LQW2UASR27J00□	270nH ±5%	-	500mA	0.91ohm	45	-	600MHz
LQW2UASR33J00□	330nH ±5%	-	450mA	1.05ohm	45	-	570MHz
LQW2UASR39J00□	390nH ±5%	-	470mA	1.12ohm	45	-	500MHz
LQW2UASR47J00□	470nH ±5%	-	470mA	1.19ohm	45	-	450MHz
LQW2UASR56J00□	560nH ±5%	-	400mA	1.33ohm	45	-	415MHz
LQW2UASR62J00□	620nH ±5%	-	300mA	1.4ohm	45	-	375MHz
LQW2UASR68J00□	680nH ±5%	-	400mA	1.47ohm	45	-	375MHz
LQW2UASR75J00□	750nH ±5%	-	360mA	1.54ohm	45	-	360MHz
LQW2UASR82J00□	820nH ±5%	-	400mA	1.61ohm	45	-	350MHz
LQW2UASR91J00□	910nH ±5%	-	380mA	1.68ohm	35	-	320MHz
LQW2UAS1R0J00□	1000nH ±5%	-	370mA	1.75ohm	35	-	290MHz

Operating Temperature Range (Self-temperature rise is not included): -55 to +125°C
Only for reflow soldering.

Continued on the following page.

●This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

⚠Note:

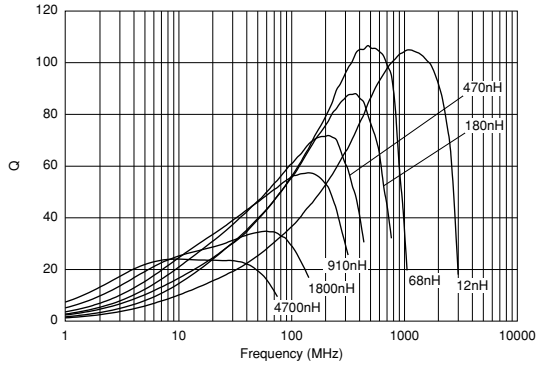
1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

Continued from the preceding page.

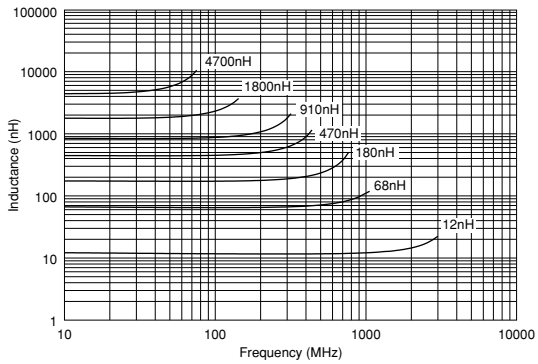
Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQW2UAS1R2J00□	1200nH ±5%	-	310mA	2ohm	35	-	210MHz
LQW2UAS1R5J00□	1500nH ±5%	-	330mA	2.3ohm	28	-	120MHz
LQW2UAS1R8J00□	1800nH ±5%	-	300mA	2.6ohm	28	-	140MHz
LQW2UAS2R2J00□	2200nH ±5%	-	280mA	2.8ohm	28	-	130MHz
LQW2UAS2R7J00□	2700nH ±5%	-	290mA	3.2ohm	22	-	110MHz
LQW2UAS3R3J00□	3300nH ±5%	-	290mA	3.4ohm	22	-	90MHz
LQW2UAS3R9J00□	3900nH ±5%	-	260mA	3.6ohm	20	-	70MHz
LQW2UAS4R7J00□	4700nH ±5%	-	260mA	4ohm	20	-	60MHz

Operating Temperature Range (Self-temperature rise is not included): -55 to +125°C
Only for reflow soldering.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



■ ⚠Caution/Notice

⚠Caution (Rating)

Do not use products beyond the rated current as this may create excessive heat.

Notice

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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