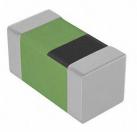


LQG15HZ3N0S02D Datasheet

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LQG15HZ3N0S02D-DG
Murata Electronics
LQG15HZ3N0502D
FIXED IND 3NH 800MA 125MOHM SMD
3 nH Unshielded Multilayer Inductor 800 mA 125mO hm Max 0402 (1005 Metric)

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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

LQG15H23N0502DMurata ElectronicsSeries:Product Status:LQG15ActiveType:Material - Core:MutlayerAirInductance:Tolerance:3 nH±0.3nHCurrent Rating (Amps):Current - Saturation (Isat):800 mA-Shielding:DC Resistance (DCR):Unshielded125m0hm Max0 @ Freq:6Hz800 mHzSerourent:800 mHzSerourent:100 MHz55°ActopeSpearent:100 MHz-100 MT-100 MT <th>Manufacturer Product Number:</th> <th>Manufacturer:</th>	Manufacturer Product Number:	Manufacturer:
LQG15ActiveType:Material - Core:MultilayerAirInductance:Tolerance:3 nH±0.3nHCurrent Rating (Amps):Current - Saturation (Isat):800 mA-Shielding:DC Resistance (DCR):Unshielded125mOhm Max0 @ Freq:GHz800 mHz6HzRatings:Operating Temperature:Atc-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Mounting Type:Package / Case:Surface Mount0.39" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	LQG15HZ3N0S02D	Murata Electronics
Type:Material - Core:MultilayerAirInductance:Tolerance:3 nH+0.3nHCurrent Rating (Amps):Current - Saturation (Isat):800 mA-Shielding:DC Resistance (DCR):Unshielded125mOhm Max0 @ Freq:6GHzRatings:Operating Temperature:AGC 0200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Mounting Type:Package / Case:Surface Mount402 (1005 Metric)Supplier Device Package:0.39" L x 0.20" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Series:	Product Status:
MultiagerAirMultiagerAirInductance:Tolerance:3 nH±0.3nHCurrent Rating (Amps):Current - Saturation (Isat):800 mA-Shielding:DC Resistance (DCR):Unshielded125mOhm MaxQ @ Freq:Frequency - Self Resonant:8 @ 100 MHzOperating Temperature:Attings:Operating Temperature:100 MHz-Nutting Type:Package / Case:100 MHzOd02 (1005 Metric)Supplier Device Package:Size / Dimension:0402O.39" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	LQG15	Active
Inductance:Tolerance:3 nH±0.3nHCurrent Rating (Amps):Current - Saturation (Isat):800 mA-Shielding:DC Resistance (DCR):Unshielded125mOhm MaxQ @ Freq:Frequency - Self Resonant:8 @ 100 MHz6GHzRatings:Operating Temperature:AcC-Q200-55°C ~ 125°CInductance Frequency - Test:Peatures:100 MHz-Nourting Type:Package / Case:Supplier Device Package:0.039" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Туре:	Material - Core:
3 nH±0.3nHCurrent Rating (Amps):Current - Saturation (Isat):800 mA-Shielding:DC Resistance (DCR):Unshielded125m0hm MaxQ @ Freq:Frequency - Self Resonant:8 @ 100 MHz6GHzRatings:Operating Temperature:ACC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Nouting Type:Package / Case:Surplier Device Package:Size / Dimension:04020.39" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Multilayer	Air
Current Rating (Amps):Current - Saturation (Isat):800 mA-Shielding:DC Resistance (DCR):Unshielded125mOhm MaxQ @ Freq:Frequency - Self Resonant:8 @ 100 MHz6GHzRatings:Operating Temperature:AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Nounting Type:Package / Case:Surface Mount502 / Dimension:Supplier Device Package:Siz / Dimension:Height - Seated (Max):Base Product Number:	Inductance:	Tolerance:
800 mA-Shielding:DC Resistance (DCR):Unshielded125m0hm MaxQ @ Freq:Frequency - Self Resonant:8 @ 100MHz6GHzRatings:Operating Temperature:AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Nounting Type:Package / Case:Surface MountSiz / Dimension:Supplier Device Package:Siz / Dimension:04020.39" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	3 nH	±0.3nH
Shielding:DC Resistance (DCR):Unshielded125m0hm MaxQ @ Freq:Frequency - Self Resonant:8 @ 100MHz6GHzRatings:Operating Temperature:AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Nounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:0.39" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Current Rating (Amps):	Current - Saturation (Isat):
Unshielded125mOhm MaxQ @ Freq:Frequency - Self Resonant:8 @ 100 MHz6GHzRatings:Operating Temperature:AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Mounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:Size / Dimension:04020.039" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	800 mA	
Q @ Freq:Frequency - Self Resonant:8 @ 100MHz6GHzRatings:Operating Temperature:AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Mounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:0.39" L x 0.20" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Shielding:	DC Resistance (DCR):
8@100MHzGGHzRatings:Operating Temperature:AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Nounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:0.39" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Unshielded	125mOhm Max
Ratings:Operating Temperature:AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Mounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:Size / Dimension:04020.039" L × 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Q @ Freq:	Frequency - Self Resonant:
AEC-Q200-55°C ~ 125°CInductance Frequency - Test:Features:100 MHz-Mounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:Size / Dimension:04020.339" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	8 @ 100MHz	6GHz
Inductance Frequency - Test:Features:100 MHz-Mounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:Size / Dimension:04020.039" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Ratings:	Operating Temperature:
100 MHz-Mounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:Size / Dimension:04020.039" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	AEC-Q200	-55℃ ~ 125℃
Mounting Type:Package / Case:Surface Mount0402 (1005 Metric)Supplier Device Package:Size / Dimension:04020.039" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Inductance Frequency - Test:	Features:
Surface Mount0402 (1005 Metric)Supplier Device Package:Size / Dimension:04020.039" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	100 MHz	
Supplier Device Package:Size / Dimension:04020.039" L x 0.020" W (1.00mm x 0.50mm)Height - Seated (Max):Base Product Number:	Mounting Type:	Package / Case:
0402 0.039" L x 0.020" W (1.00mm x 0.50mm) Height - Seated (Max): Base Product Number:	Surface Mount	0402 (1005 Metric)
Height - Seated (Max): Base Product Number:	Supplier Device Package:	Size / Dimension:
	0402	0.039" L x 0.020" W (1.00mm x 0.50mm)
	Height - Seated (Max):	Base Product Number:
0.022" (0.55mm) LQG15HZ	0.022" (0.55mm)	LQG15HZ

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

Reference Only

CHIP COILS (CHIP INDUCTORS) LQG15HZ

1. Scope

This reference specification applies to chip coils (chip inductors) LQG15HZ_02 series for automotive electronics based on AEC-Q200 except for power trains and safeties.

2. Part Numbering

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15	<u> </u>	Z	1N0	S	0	2	D
Dimension	Application	Category	Inductance	Tolerance	Performance	Electrode	Packaging
(L × W)	and					specification	D: taping
	characteristic						*B: bulk
	e Dimension	Dimension Application (L × W) and	Dimension Application Category (L × W) and	E Dimension Application Category Inductance (L × W) and	e Dimension Application Category Inductance Tolerance (L × W) and	Dimension Application Category Inductance Tolerance Performance (L × W) and	e Dimension Application Category Inductance Tolerance Performance Electrode specification

*B: Bulk packing is also available.

3. Part Number and Rating

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

		Inductance			DC	Colf recoment	Rated	ESD
Customer Part number	Murata Part number	Nominal value (nH)	Tolerance	Q (Min.)	resistance (Ω max.)	Self-resonant frequency (MHz min.)	current (mA)	Rank 1C:1kV
	LQG15HZ1N0B02D	1.0	B: ±0.1 nH	8	0.07	10000	1000	1C
	LQG15HZ1N0C02D	1.0	C: ±0.2 nH	8	0.07	10000	1000	1C
	LQG15HZ1N0S02D	1.0	S: ±0.3 nH	8	0.07	10000	1000	1C
	LQG15HZ1N1B02D	1.1	B: ±0.1 nH	8	0.07	6000	1000	1C
	LQG15HZ1N1C02D	1.1	C: ±0.2 nH	8	0.07	6000	1000	1C
	LQG15HZ1N1S02D	1.1	S: ±0.3 nH	8	0.07	6000	1000	1C
	LQG15HZ1N2B02D	1.2	B: ±0.1 nH	8	0.07	6000	1000	1C
	LQG15HZ1N2C02D	1.2	C: ±0.2 nH	8	0.07	6000	1000	1C
	LQG15HZ1N2S02D	1.2	S: ±0.3 nH	8	0.07	6000	1000	1C
	LQG15HZ1N3B02D	1.3	B: ±0.1 nH	8	0.07	6000	1000	1C
	LQG15HZ1N3C02D	1.3	C: ±0.2 nH	8	0.07	6000	1000	1C
	LQG15HZ1N3S02D	1.3	S: ±0.3 nH	8	0.07	6000	1000	1C
	LQG15HZ1N5B02D	1.5	B: ±0.1 nH	8	0.07	6000	1000	1C
	LQG15HZ1N5C02D	1.5	C: ±0.2 nH	8	0.07	6000	1000	1C
	LQG15HZ1N5S02D	1.5	S: ±0.3 nH	8	0.07	6000	1000	1C
	LQG15HZ1N6B02D	1.6	B: ±0.1 nH	8	0.07	6000	1000	1C
	LQG15HZ1N6C02D	1.6	C: ±0.2 nH	8	0.07	6000	1000	1C
	LQG15HZ1N6S02D	1.6	S: ±0.3 nH	8	0.07	6000	1000	1C
	LQG15HZ1N8B02D	1.8	B: ±0.1 nH	8	0.08	6000	950	1C
	LQG15HZ1N8C02D	1.8	C: ±0.2 nH	8	0.08	6000	950	1C
	LQG15HZ1N8S02D	1.8	S: ±0.3 nH	8	0.08	6000	950	1C
	LQG15HZ2N0B02D	2.0	B: ±0.1 nH	8	0.09	6000	900	1C
	LQG15HZ2N0C02D	2.0	C: ±0.2 nH	8	0.09	6000	900	1C
	LQG15HZ2N0S02D	2.0	S: ±0.3 nH	8	0.09	6000	900	1C
	LQG15HZ2N2B02D	2.2	B: ±0.1 nH	8	0.09	6000	900	1C
	LQG15HZ2N2C02D	2.2	C: ±0.2 nH	8	0.09	6000	900	1C
	LQG15HZ2N2S02D	2.2	S: ±0.3 nH	8	0.09	6000	900	1C
	LQG15HZ2N4B02D	2.4	B: ±0.1 nH	8	0.11	6000	850	1C
	LQG15HZ2N4C02D	2.4	C: ±0.2 nH	8	0.11	6000	850	1C

Reference Only

P2/13

Customer Part numberInteraction withe with withe with withe with<									,
LQG15HZ2N7B02D 2.7 B: ±0.1 nH 8 0.12 6000 800 1C LQG15HZ2N7C02D 2.7 C: ±0.2 nH 8 0.12 6000 800 1C LQG15HZ2N7602D 2.7 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N0602D 3.0 C: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N0602D 3.0 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N3602D 3.3 S: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N602D 3.6 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N602D 3.6 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N602D 3.6 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N8602D 3.6 B: ±0.1 nH 8 0.14 6000 750 1C			Nominal value			resistance	frequency	current	
LQG15HZ2N7C02D 2.7 C: ±0.2 nH 8 0.12 6000 800 1C LQG15HZ2N7S02D 2.7 S: ±0.3 nH 8 0.12 6000 800 1C LQG15HZ3N0G2D 3.0 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N0S02D 3.0 C: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N0S02D 3.3 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N3S02D 3.3 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3NS602D 3.6 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3NS602D 3.6 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3NS602D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3NS02D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C		LQG15HZ2N4S02D	2.4	S: ±0.3 nH	8	0.11	6000	850	1C
LQG15HZ2N7S02D 2.7 S: £0.3 nH 8 0.12 6000 800 1C LQG15HZ3N0B02D 3.0 B: £0.1 nH 8 0.125 6000 800 1C LQG15HZ3N0S02D 3.0 B: £0.1 nH 8 0.125 6000 800 1C LQG15HZ3NS02D 3.3 B: £0.1 nH 8 0.125 6000 800 1C LQG15HZ3NS02D 3.3 B: £0.1 nH 8 0.125 6000 800 1C LQG15HZ3NS02D 3.6 B: £0.1 nH 8 0.14 6000 750 1C LQG15HZ3N802D 3.6 B: £0.1 nH 8 0.14 6000 750 1C LQG15HZ3N802D 3.9 B: £0.1 nH 8 0.14 6000 750 1C LQG15HZ3N802D 3.9 S: £0.2 nH 8 0.14 6000 750 1C LQG15HZ3N802D 3.9 S: £0.3 nH 8 0.14 6000 750 1C <tr< td=""><td></td><td>LQG15HZ2N7B02D</td><td>2.7</td><td>B: ±0.1 nH</td><td>8</td><td>0.12</td><td>6000</td><td>800</td><td>1C</td></tr<>		LQG15HZ2N7B02D	2.7	B: ±0.1 nH	8	0.12	6000	800	1C
LQG15HZ3N0B02D 3.0 B: ±0.1 nH 8 0.125 6000 800 1C LQG15HZ3N0G2D 3.0 C: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N0G2D 3.0 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N3G02D 3.3 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N3G02D 3.3 C: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N8G02D 3.6 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.6 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4NS02D 4.3 E: ±0.1 nH 8 0.14 6000 750 1C		LQG15HZ2N7C02D	2.7	C: ±0.2 nH	8	0.12	6000	800	1C
LQG15HZ3N0C02D 3.0 C: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N0S02D 3.0 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N3S02D 3.3 B: ±0.1 nH 8 0.125 6000 800 1C LQG15HZ3N3S02D 3.3 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N8S02D 3.6 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.6 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N8502D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N8502D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N8502D 4.3 S: ±0.3 nH 8 0.14 6000 700 1C		LQG15HZ2N7S02D	2.7	S: ±0.3 nH	8	0.12	6000	800	1C
LQG15HZ3N0502D 3.0 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N302D 3.3 C: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N302D 3.3 C: ±0.2 nH 8 0.125 6000 800 1C LQG15HZ3N802D 3.6 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N602D 3.6 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N602D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N902D 3.9 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N902D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N802D 4.3 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N702D 4.7 S: ±0.2 nH 8 0.14 6000 700 1C		LQG15HZ3N0B02D	3.0	B: ±0.1 nH	8	0.125	6000	800	1C
LQG15HZ3N3B02D 3.3 B:±0.1 nH 8 0.125 6000 800 1C LQG15HZ3N3C02D 3.3 S:±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N3C02D 3.3 S:±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N8E02D 3.6 B:±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N8E02D 3.6 S:±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N8E02D 3.9 B:±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N9502D 3.9 S:±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N8502D 4.3 S:±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N8502D 4.3 S:±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N8502D 4.7 S:±0.3 nH 8 0.14 6000 700 1C		LQG15HZ3N0C02D	3.0	C: ±0.2 nH	8	0.125	6000	800	1C
LQG 15HZ3N3C02D 3.3 C: ±0.2 nH 8 0.125 6000 800 1C LQG 15HZ3N3S02D 3.3 S: ±0.3 nH 8 0.125 60000 750 1C LQG 15HZ3N6B02D 3.6 B: ±0.1 nH 8 0.14 6000 750 1C LQG 15HZ3N6B02D 3.6 C: ±0.2 nH 8 0.14 6000 750 1C LQG 15HZ3N6B02D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG 15HZ3N8D02D 3.9 C: ±0.2 nH 8 0.14 6000 750 1C LQG 15HZ4N3B02D 4.3 B: ±0.1 nH 8 0.14 6000 750 1C LQG 15HZ4N3C02D 4.3 S: ±0.3 nH 8 0.14 6000 700 1C LQG 15HZ4N3C02D 4.7 S: ±0.3 nH 8 0.16 6000 700 1C LQG 15HZ4N7C02D 4.7 S: ±0.3 nH 8 0.18 5300 650 1C		LQG15HZ3N0S02D	3.0	S: ±0.3 nH	8	0.125	6000	800	1C
LQG15HZ3N3S02D 3.3 S: ±0.3 nH 8 0.125 6000 800 1C LQG15HZ3N8G02D 3.6 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.6 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ4N3B02D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N3B02D 4.3 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ4N7B02D 4.7 B: ±0.1 nH 8 0.16 6000 700 1C LQG15HZ4N7G02D 4.7 C: ±0.2 nH 8 0.16 6000 700 1C LQG15HZ4N7G02D 5.1 B: ±0.1 nH 8 0.18 5300 650 1C		LQG15HZ3N3B02D	3.3	B: ±0.1 nH	8	0.125	6000	800	1C
LQG15HZ3N6B02D 3.6 B:±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N6C02D 3.6 C:±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N8G02D 3.6 S:±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N9G02D 3.9 D:±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N9G02D 3.9 C:±0.2 nH 8 0.14 6000 750 1C LQG15HZ4N3G02D 4.3 B:±0.1 nH 8 0.14 6000 750 1C LQG15HZ4N3G02D 4.3 S:±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N3G02D 4.3 S:±0.3 nH 8 0.16 6000 700 1C LQG15HZ4N3G02D 4.7 B:±0.1 nH 8 0.16 6000 700 1C LQG15HZ4N7502D 5.1 B:±0.1 nH 8 0.18 5300 650 1C		LQG15HZ3N3C02D	3.3	C: ±0.2 nH	8	0.125	6000	800	1C
LQG15HZ3N6C02D 3.6 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N8S02D 3.6 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N8D02D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N9C02D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N3B02D 4.3 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ4N3B02D 4.3 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ4N7S02D 4.7 C: ±0.2 nH 8 0.16 6000 700 1C LQG15HZ4N7S02D 4.7 C: ±0.2 nH 8 0.16 6000 700 1C LQG15HZ5N1502D 5.1 B: ±0.1 nH 8 0.18 5300 650 1C LQG15HZ5N1502D 5.1 B: ±0.1 nH 8 0.18 5300 650 1C		LQG15HZ3N3S02D	3.3	S: ±0.3 nH	8	0.125	6000	800	1C
LQG15HZ3N6S02D 3.6 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ3N9B02D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N9B02D 3.9 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N3S02D 4.3 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ4N3S02D 4.3 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N7S02D 4.7 B: ±0.1 nH 8 0.16 6000 700 1C LQG15HZ5N1B02D 5.1 B: ±0.1 nH 8 0.18 5300 650 1C LQG15HZ5N1502D 5.1 B: ±0.1 nH 8 0.18 5300 650 1C LQG15HZ5N1502D 5.1 S: ±0.3 nH 8 0.18 4500 650 1C		LQG15HZ3N6B02D	3.6	B: ±0.1 nH	8	0.14	6000	750	1C
LQG15HZ3N9B02D 3.9 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ3N9C02D 3.9 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N3B02D 4.3 B: ±0.1 nH 8 0.14 6000 750 1C LQG15HZ4N3S02D 4.3 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N7S02D 4.7 B: ±0.1 nH 8 0.16 6000 700 1C LQG15HZ4N7S02D 4.7 S: ±0.3 nH 8 0.16 6000 700 1C LQG15HZ5N1502D 5.1 C: ±0.2 nH 8 0.18 5300 650 1C LQG15HZ5N1502D 5.1 C: ±0.2 nH 8 0.18 4500 650 1C LQG15HZ5N1502D 5.1 S: ±0.3 nH 8 0.18 4500 650 1C		LQG15HZ3N6C02D	3.6	C: ±0.2 nH	8	0.14	6000	750	1C
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LQG15HZ4N3C02D 4.3 C: ±0.2 nH 8 0.14 6000 750 1C LQG15HZ4N3S02D 4.3 S: ±0.3 nH 8 0.14 6000 750 1C LQG15HZ4N7B02D 4.7 B: ±0.1 nH 8 0.16 6000 700 1C LQG15HZ4N7C02D 4.7 C: ±0.2 nH 8 0.16 6000 700 1C LQG15HZ5N1C02D 5.1 B: ±0.1 nH 8 0.18 5300 650 1C LQG15HZ5N1C02D 5.1 B: ±0.3 nH 8 0.18 5300 650 1C LQG15HZ5N1B02D 5.1 B: ±0.1 nH 8 0.18 5300 650 1C LQG15HZ5N6B02D 5.6 B: ±0.1 nH 8 0.18 4500 650 1C LQG15HZ5N6S02D 5.6 S: ±0.3 nH 8 0.18 4500 650 1C LQG15HZ6N2602D 6.2 S: ±0.3 nH 8 0.20 4500 600 1C		LQG15HZ3N9S02D	3.9	S: ±0.3 nH	8	0.14	6000	750	1C
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		LQG15HZ4N3B02D	4.3	B: ±0.1 nH	8	0.14	6000	750	1C
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LQG15HZ6N2S02D 6.2 S: ±0.3 nH 8 0.20 4500 600 1C LQG15HZ6N8G02D 6.8 G: ±2% 8 0.22 4500 600 1C LQG15HZ6N8H02D 6.8 H: ±3% 8 0.22 4500 600 1C LQG15HZ6N8H02D 6.8 H: ±3% 8 0.22 4500 600 1C LQG15HZ6N8J02D 6.8 J: ±5% 8 0.22 4500 600 1C LQG15HZ7N5G02D 7.5 G: ±2% 8 0.24 4200 550 1C LQG15HZ7N5H02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ9N1G02D		LQG15HZ6N2B02D	6.2	B: ±0.1 nH	8	0.20	4500	600	1C
LQG15HZ6N8G02D 6.8 G: ±2% 8 0.22 4500 600 1C LQG15HZ6N8H02D 6.8 H: ±3% 8 0.22 4500 600 1C LQG15HZ6N8H02D 6.8 H: ±3% 8 0.22 4500 600 1C LQG15HZ6N8J02D 6.8 J: ±5% 8 0.22 4500 600 1C LQG15HZ7N5G02D 7.5 G: ±2% 8 0.24 4200 550 1C LQG15HZ7N5H02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ9N1G02D		LQG15HZ6N2C02D	6.2	C: ±0.2 nH	8	0.20	4500	600	1C
LQG15HZ6N8H02D 6.8 H: ±3% 8 0.22 4500 600 1C LQG15HZ6N8J02D 6.8 J: ±5% 8 0.22 4500 600 1C LQG15HZ6N8J02D 6.8 J: ±5% 8 0.22 4500 600 1C LQG15HZ7N5G02D 7.5 G: ±2% 8 0.24 4200 550 1C LQG15HZ7N5H02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1G02D		LQG15HZ6N2S02D	6.2	S: ±0.3 nH	8	0.20	4500	600	1C
LQG15HZ6N8J02D 6.8 J: ±5% 8 0.22 4500 600 1C LQG15HZ7N5G02D 7.5 G: ±2% 8 0.24 4200 550 1C LQG15HZ7N5H02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5H02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1J02D		LQG15HZ6N8G02D	6.8	G: ±2%	8	0.22	4500	600	1C
LQG15HZ7N5G02D 7.5 G: ±2% 8 0.24 4200 550 1C LQG15HZ7N5H02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ9N1G02D 8.2 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C		LQG15HZ6N8H02D	6.8	H: ±3%	8	0.22	4500	600	1C
LQG15HZ7N5H02D 7.5 H: ±3% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1J02D		LQG15HZ6N8J02D	6.8	J: ±5%	8	0.22	4500	600	1C
LQG15HZ7N5J02D 7.5 J: ±5% 8 0.24 4200 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 9.1 J: ±5% 8 0.26 3400 500 1C		LQG15HZ7N5G02D	7.5	G: ±2%	8	0.24	4200	550	1C
LQG15HZ8N2G02D 8.2 G: ±2% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 10 G: ±2% 8 0.26 3400 500 1C		LQG15HZ7N5H02D		H: ±3%		0.24	4200	550	1C
LQG15HZ8N2H02D 8.2 H: ±3% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ8N2J02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 10 G: ±2% 8 0.26 3400 500 1C						0.24		550	1C
LQG15HZ8N2J02D 8.2 J: ±5% 8 0.24 3700 550 1C LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 10 G: ±2% 8 0.26 3400 500 1C		-						550	
LQG15HZ9N1G02D 9.1 G: ±2% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 10 G: ±2% 8 0.26 3400 500 1C		LQG15HZ8N2H02D							1C
LQG15HZ9N1H02D 9.1 H: ±3% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 10 G: ±2% 8 0.26 3400 500 1C									-
LQG15HZ9N1J02D 9.1 J: ±5% 8 0.26 3400 500 1C LQG15HZ10NG02D 10 G: ±2% 8 0.26 3400 500 1C								500	
LQG15HZ10NG02D 10 G: ±2% 8 0.26 3400 500 1C		LQG15HZ9N1H02D	9.1	H: ±3%	8	0.26	3400	500	1C
			9.1					500	
LQG15HZ10NH02D 10 H: ±3% 8 0.26 3400 500 1C									1C
		LQG15HZ10NH02D	10	H: ±3%	8	0.26	3400	500	1C

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Customer Part number	Murata Part number	Indu Nominal value (nH)	ictance Tolerance	Q (Min.)	DC resistance (Ω max.)	Self-resonant frequency (MHz min.)	Rated current (mA)	ESD Rank 1C:1kV
	LQG15HZ10NJ02D	10	J: ±5%	8	0.26	3400	500	1C
	LQG15HZ12NG02D	12	G: ±2%	8	0.28	3000	500	1C
	LQG15HZ12NH02D	12	H: ±3%	8	0.28	3000	500	1C
	LQG15HZ12NJ02D	12	J: ±5%	8	0.28	3000	500	1C
	LQG15HZ15NG02D	15	G: ±2%	8	0.32	2500	450	1C
	LQG15HZ15NH02D	15	H: ±3%	8	0.32	2500	450	1C
	LQG15HZ15NJ02D	15	J: ±5%	8	0.32	2500	450	1C
	LQG15HZ18NG02D	18	G: ±2%	8	0.36	2200	400	1C
	LQG15HZ18NH02D	18	H: ±3%	8	0.36	2200	400	1C
	LQG15HZ18NJ02D	18	J: ±5%	8	0.36	2200	400	1C
	LQG15HZ22NG02D	22	G: ±2%	8	0.42	1900	350	1C
	LQG15HZ22NH02D	22	H: ±3%	8	0.42	1900	350	1C
	LQG15HZ22NJ02D	22	J: ±5%	8	0.42	1900	350	1C
	LQG15HZ27NG02D	27	G: ±2%	8	0.46	1700	350	1C
	LQG15HZ27NH02D	27	H: ±3%	8	0.46	1700	350	1C
	LQG15HZ27NJ02D	27	J: ±5%	8	0.46	1700	350	1C
	LQG15HZ33NG02D	33	G: ±2%	8	0.58	1600	350	1C
	LQG15HZ33NH02D	33	H: ±3%	8	0.58	1600	350	1C
	LQG15HZ33NJ02D	33	J: ±5%	8	0.58	1600	350	1C
	LQG15HZ39NG02D	39	G: ±2%	8	0.65	1200	300	1C
	LQG15HZ39NH02D	39	H: ±3%	8	0.65	1200	300	1C
	LQG15HZ39NJ02D	39	J: ±5%	8	0.65	1200	300	1C
	LQG15HZ47NG02D	47	G: ±2%	8	0.72	1000	300	1C
	LQG15HZ47NH02D	47	H: ±3%	8	0.72	1000	300	1C
	LQG15HZ47NJ02D	47	J: ±5%	8	0.72	1000	300	1C
	LQG15HZ56NG02D	56	G: ±2%	8	0.82	800	250	1C
	LQG15HZ56NH02D	56	H: ±3%	8	0.82	800	250	1C
	LQG15HZ56NJ02D	56	J: ±5%	8	0.82	800	250	1C
	LQG15HZ68NG02D	68	G: ±2%	8	0.92	800	250	1C
	LQG15HZ68NH02D	68	H: ±3%	8	0.92	800	250	1C
	LQG15HZ68NJ02D	68	J: ±5%	8	0.92	800	250	1C
	LQG15HZ82NG02D	82	G: ±2%	8	1.20	700	200	1C
	LQG15HZ82NH02D	82	H: ±3%	8	1.20	700	200	1C
	LQG15HZ82NJ02D	82	J: ±5%	8	1.20	700	200	1C
	LQG15HZR10G02D	100	G: ±2%	8	1.25	600	200	1C
	LQG15HZR10H02D	100	H: ±3%	8	1.25	600	200	1C
	LQG15HZR10J02D	100	J: ±5%	8	1.25	600	200	1C
	LQG15HZR12G02D	120	G: ±2%	8	1.30	600	200	1C
	LQG15HZR12H02D	120	H: ±3%	8	1.30	600	200	1C
	LQG15HZR12J02D	120	J: ±5%	8	1.30	600	200	1C
	LQG15HZR15G02D	150	G: ±2%	8	2.99	550	150	1C
	LQG15HZR15H02D	150	H: ±3%	8	2.99	550	150	1C
	LQG15HZR15J02D	150	J: ±5%	8	2.99	550	150	1C
	LQG15HZR18G02D	180	G: ±2%	8	3.38	500	150	1C
	LQG15HZR18H02D	180	H: ±3%	8	3.38	500	150	1C
			I					

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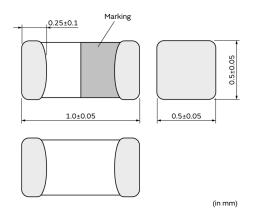
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		Indu	ctance		DC	Self-resonant	Rated	ESD		
Customer Part number	Murata Part number	Nominal value (nH)	Tolerance	Q (Min.)			resistance (Ω max.)	frequency (MHz min.)	current (mA)	Rank 1C:1kV
	LQG15HZR18J02D	180	J: ±5%	8	3.38	500	150	1C		
	LQG15HZR22G02D	220	G: ±2%	8	3.77	450	120	1C		
	LQG15HZR22H02D	220	H: ±3%	8	3.77	450	120	1C		
	LQG15HZR22J02D	220	J: ±5%	8	3.77	450	120	1C		
	LQG15HZR27G02D	270	G: ±2%	8	4.94	400	110	1C		
	LQG15HZR27H02D	270	H: ±3%	8	4.94	400	110	1C		
	LQG15HZR27J02D	270	J: ±5%	8	4.94	400	110	1C		

4. Testing Conditions

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): 0.001 g

6. Marking

Direction identification marking: black





Spec No.: JELF243B 9110F-01

Reference Only

7. Electrical Performance

No.	Item	Specification	Test method
7.1	Inductance	Meet chapter 3 ratings.	Measuring equipment: Keysight E4991A or the
7.2	Q	Meet chapter 3 ratings.	equivalent Measuring frequency: 100 MHz Measuring conditions: Measurement signal level: Approx. 0 dBm Measurement terminal distance: 0.5 mm Electrical length: 10 mm Weight: Approx. 1 N to 5 N 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:
			Product(top view) Guide Direction identification marking Product(top view) Direction identification marking Direction identification marking
			Measuring method: see "Electrical performance: Measuring method for inductance/Q" in the Appendix.
7.3	DC resistance	Meet chapter 3 ratings.	Measuring equipment: digital multimeter
	Self-resonant frequency	Meet chapter 3 ratings.	Measuring equipment: Keysight 8753C or the equivalent
7.5	Rated current	Product temperature rise: 25°C max.	Apply the rated current 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 ana ification (doviation				
No.	Stress	Test method	Murata specification/deviation				
3	High temperature exposure	1000 h at 125°C Set for 24 h at room condition, then measured.	Meet table A after testing. Table A Appearance No damage Inductance change rate (at 100 MHz) Within ±10%				
4	Temperature cycling	1000 cycles -40°C to +125°C Set for 24 h at room condition, then measured.	Meet table A after testing.				
7	Biased humidity	1000 h at 85°C, 85% (RH). Unpowered. Set for 24 h at room condition, then measured.	Meet table A after testing.				
8	Operational life	Apply 125°C 1000 h Set for 24 h at room condition, then measured.	Meet table A after testing.				
9	External visual	Visual inspection	No abnormalities				
10	Physical dimension	Meet chapter 5, "Appearance and Dimensions".	No defects				
12	Resistance to solvents	Per MIL-STD-202 Method 215	Not applicable				

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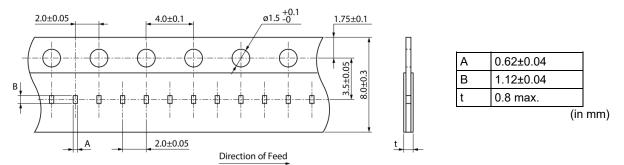
Spec No.: JELF243B 9110F-01

Reference Only

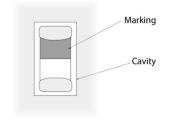
		AEC-Q200			
No.	Stress	Test method	Murata specification/deviation		
13	Mechanical shock	Per MIL-STD-202 Method 213 Condition C: 100 g's (0.98 N), 6 ms, half sine, 12.3 ft/s	Meet table A after testing.		
14	Vibration	5 g's (0.049 N) for 20 min, 12 cycles each of 3 orientations Test from 10 Hz to 2000 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 90% of the terminations is to be soldered.		
19	Electrical characterization	Measured: inductance	No defects		
20	Flammability	Per UL-94	Not applicable		
21	Board 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	Murata deviation request: 5 N No defects		

9. Specification of Packaging

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



Top view



Direction of feed

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Spec No.: JELF243B 9110F-01

Reference Only

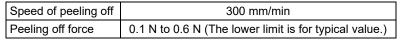
9.2 Taping specifications

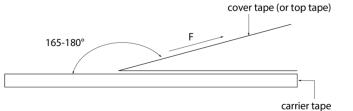
Packing quantity (Standard quantity)	10000 pcs/reel	
Packing method	The products are placed in cavities of a carrier tape and sealed by a cover tape (top tape and botto tape when the cavities of the carrier tape are punched type).	
Feed hole position	The feed holes on the carrier tape are on the right side when the cover tape (top tape when the cavities of the carrier tape are punched type) is pulled toward the user.	
Joint	The carrier tape and cover tape (top tape when the cavities of the carrier tape are punched type) as 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

Cover tape (or top tape)	5 N min.
Bottom tape (only when the cavities of the carrier tape are punched type)	5 N min.

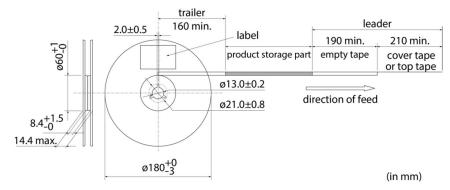
9.4 Peeling off force of tape





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.

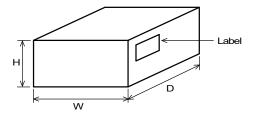
*1 Expression of inspection No.:	 (1) Factory code (2) Date First digit: year/last digit of year Second digit: month/Jan. to Sep.→1 to 9, Oct. to Dec.→O, N, D Third, Fourth digit: day (3) Serial No.
*2 Expression of RoHS marking: ROHS- \underline{Y} $\underline{(\triangle)}$ (1) (2)	(1) RoHS regulation 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 H		in outer box (reel)
186	186	93	5
* Above outer box size is typical. It depends on a quantity of an order.			

10. **A**Caution

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	(2) Aerospace equipment	(3) Undersea equipment	(4) Power plant control equipment
(5) Medical equipment	(6) Transportation equipment (trains, ships, etc.)	(7) Traffic signal equipment	(8) Disaster/crime prevention equipment
(9) Data-processing equipment	(10) Applications of similar cor reliability requirements to the the above	1 2	

10.2 Precautions on rating

Avoid using in exceeded the rated temperature range, rated voltage, or rated current. Usage when the ratings are exceeded could lead to wire breakage, burning, or other serious fault.

10.3 Inrush current

If an inrush current (or pulse current or rush current) that significantly exceeds the rated current is applied to the product, overheating could occur, resulting in wire breakage, burning, or other serious fault.

10.4 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.

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:



Reference Only

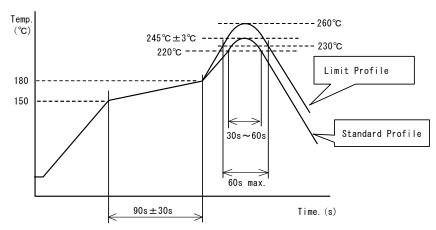
11.2 Flux and solder used

Flux	 Use a rosin-based flux. 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	der • Use Sn-3.0Ag-0.5Cu solder. • Standard thickness of solder paste: 100 μm to 150 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

The following requirements must be met to rework a soldered product using a soldering iron.

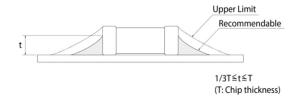
Item	Requirement	
Pre-heating	150°C/approx. 1 min	
Tip temperature of soldering iron	350°C max.	
Power consumption of soldering iron	80 W max.	
Tip diameter of soldering iron	ø3 mm max.	
Soldering time3 s (+1 s, -0 s)		
Number of reworking operations 2 times max.		
* Avoid a direct contact of the tip of the soldering iron with the product. Such a		

* Avoid a direct contact of the tip of the soldering iron with the product. Such a direction contact may cause cracks in the ceramic body due to thermal shock.



11.5 Solder volume

Solder shall be used not to be exceeded the upper limits as shown below.



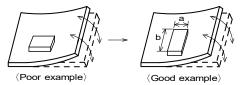
An increased solder volume increases mechanical stress on the product. Exceeding solder volume may cause the failure of mechanical or electrical performance.

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.

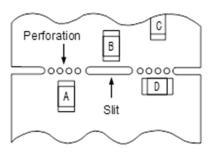


(2) Components location on PCB separation

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.

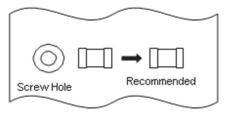
Contents of measures	Stress level
 Turn the mounting direction of the component parallel to the board separation surface. 	A > D ^{*1}
(2) Add slits in the board separation part.	A > B
(3) Keep the mounting position of the component away from the board separation surface.	A > C
*1 A > D is valid when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



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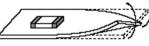


11.7 Handling of substrate

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.



Bending



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 6 months after delivery. If you do not use the product for more than 6 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 may cause the poor solderability. 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. Do not keep products in bulk packaging. Bulk storage could result in collisions between the products or between the products and other parts, resulting in chipping or wire breakage. Avoid storing the product by itself bare (i.e. exposed directly to air).
Transportation	Excessive vibration and impact reduces the reliability of the products. Exercise caution when handling the products.

11.10 Resin coating (including moisture-proof coating)

When the product is coated/molded with resin, its electrical characteristics may change.

A wire breakage issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc.

Some resins contain impurities or hydrolyzable chlorine, which could result in corrosion of the conducting materials, 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 Mounting conditions

Check the mounting condition before using.

Using mounting conditions (nozzles, equipment conditions, etc.) that are not suitable for products may lead to pick up errors, misalignment, or damage to the product.

P11/13



11.12 Operating environment

- Do not use this product under the following environmental conditions as it may cause deterioration of product quality.
- (1) In the corrodible atmosphere such as acidic gases, alkaline gases, chlorine, sulfur gases, organic gases and etc. (the sea breeze, Cl2, H2S, NH3, SO2, NO2, etc)
- (2) In the atmosphere where liquid such as organic solvent, may splash on the products.
- (3) In the atmosphere where the temperature/humidity changes rapidly and it is easy to dew.

11.13 Mounting density

If this product is placed near heat-generating products, be sure to implement sufficient heat-dissipating measures. If this product is subjected to a significant amount of heat from other products, this could adversely affect product quality, resulting in a circuit malfunction or failure of the mounted section. Also, be sure that the product is used in a manner so that the heat that the product is subjected to from other products does not exceed the upper limit of the rated operating temperature for the product.

12.<u>//</u> 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.

P12/13

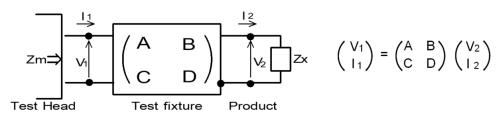


Appendix

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.

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

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

	7m 6	Here, $\alpha = D/A = 1$ $\beta = B/D = Zsm - (1 - Yom Zsm) Zss$ $\Gamma = C/A = Yom$
	Zx=α $rac{Zm-β}{1-Zm\Gamma}$	Zsm: measured impedance of short chip Zss: residual impedance of short chip (0 nH) Yom: measured admittance when measuring terminal is open
(4)	Calculate inductance Lx and	Qx using the equations shown below.
	$Lx = \frac{Im(Zx)}{2\pi f}$ $Qx = \frac{Im(Zx)}{Re(Zx)}$	Lx: inductance of chip coil Qx: Q of chip coil f: measuring frequency



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Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

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