

AMI TYPE

MULTILAYER CHIP INDUCTOR



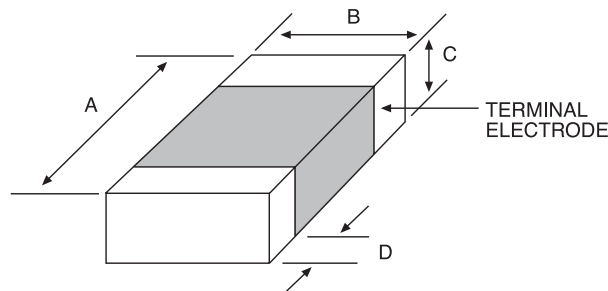
PRODUCT IDENTIFICATION

AMI - **160808** - **R10** **K**

1
2
3
4

- 1) PRODUCTS SYMBOL
- 2) DIMENSION
- 3) INDUCTANCE
- 4) TOLERANCE J=±5%, K=±10%, M=±20%

SHAPE & DIMENSION



Dimension in mm (inch)

PART NO.	A	B	C	D
AMI-160808	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.20
(0603)	(0.036±0.006)	(0.031±0.006)	(0.031±0.006)	(0.012±0.008)
AMI-201209	2.0±0.20	1.2±0.20	0.9±0.20	0.5±0.30
(0805)	(0.079±0.008)	(0.047±0.008)	(0.035±0.008)	(0.020±0.012)
AMI-201212	2.0±0.20	1.2±0.20	1.2±0.20	0.5±0.30
(0805)	(0.079±0.008)	(0.047±0.008)	(0.047±0.008)	(0.020±0.012)
AMI-321611	3.2±0.20	1.6±0.20	1.1±0.20	0.5±0.30
(1206)	(0.126±0.008)	(0.063±0.008)	(0.043±0.008)	(0.020±0.012)

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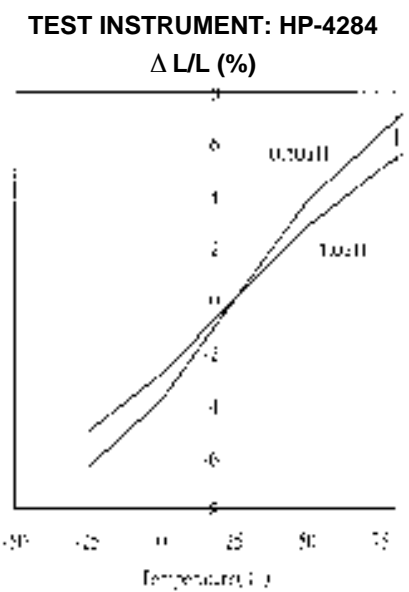
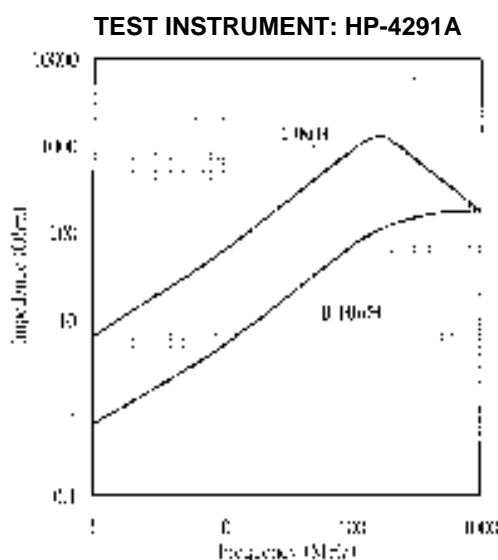
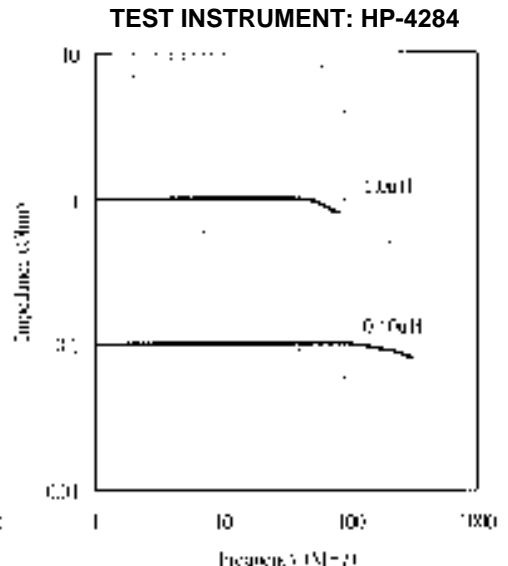
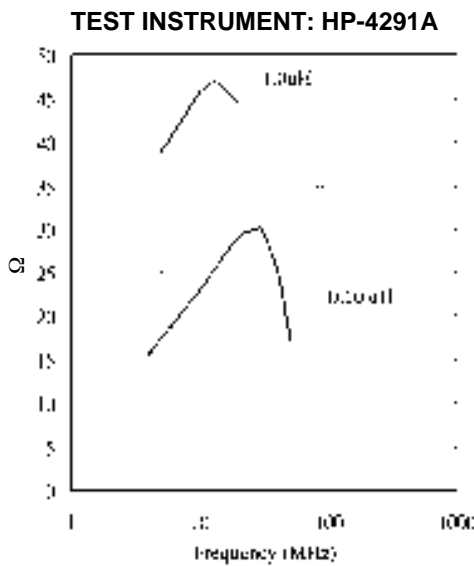
ELECTRICAL CHARACTERISTIC

Tolerance J=±5%, K=±10%, M=±20%

Part Number	Inductance (μ H)	Q Min.	LQ Test	Self Resonant	DC Resistance	Rated Current
			Frequency (MHz)	Frequency (MHz) Min.	Rdc (Ω) Max.	Idc (mA) Max.
AMI-160808-47N	0.047±20%	10	50	260	0.30	50
AMI-160808-68N	0.068±20%	10	50	250	0.30	50
AMI-160808-82N	0.082±20%	10	50	245	0.30	50
AMI-160808-R10	0.10	15	25	240	0.50	50
AMI-160808-R12	0.12	15	25	205	0.50	50
AMI-160808-R15	0.15	15	25	180	0.60	50
AMI-160808-R18	0.18	15	25	165	0.60	50
AMI-160808-R22	0.22	15	25	150	0.80	50
AMI-160808-R27	0.27	15	25	136	0.80	50
AMI-160808-R33	0.33	15	25	125	0.85	35
AMI-160808-R39	0.39	15	25	110	1.00	35
AMI-160808-R47	0.47	15	25	105	1.35	35
AMI-160808-R56	0.56	15	25	95	1.55	35
AMI-160808-R68	0.68	15	25	90	1.70	35
AMI-160808-R82	0.82	15	25	85	2.10	35
AMI-160808-1R0	1.00	35	10	75	2.60	25

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TYPICAL ELECTRICAL CHARACTERISTIC CURVES



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ELECTRICAL CHARACTERISTIC

Tolerance J=±5%, K=±10%, M=±20%

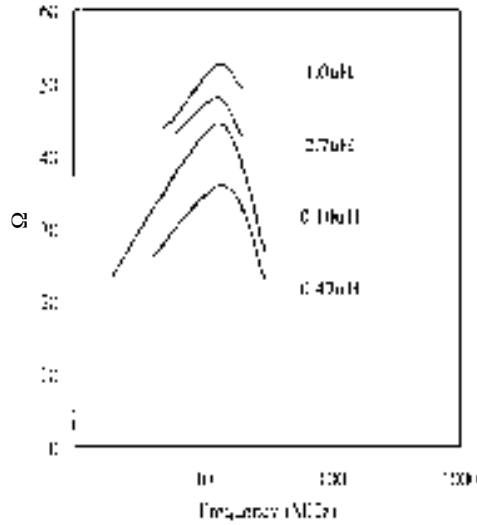
Part Number	Inductance (μ H)	Q Min.	LQ Test	Self Resonant	DC Resistance	Rated Current
			Frequency (MHz)	Frequency (MHz) Min.	Rdc (Ω) Max.	Idc (mA) Max.
AMI-201209-47N	0.047±20%	15	50	320	0.20	300
AMI-201209-68N	0.068±20%	15	50	280	0.20	300
AMI-201209-82N	0.082±20%	15	50	255	0.20	300
AMI-201209-R10	0.10	20	25	235	0.30	250
AMI-201209-R12	0.12	20	25	220	0.30	250
AMI-201209-R15	0.15	20	25	200	0.40	250
AMI-201209-R18	0.18	20	25	185	0.40	250
AMI-201209-R22	0.22	20	25	170	0.50	250
AMI-201209-R27	0.27	20	25	150	0.50	250
AMI-201209-R33	0.33	20	25	145	0.55	250
AMI-201209-R39	0.39	25	25	135	0.65	200
AMI-201209-R47	0.47	25	25	125	0.65	200
AMI-201209-R56	0.56	25	25	115	0.75	150
AMI-201209-R68	0.68	25	25	105	0.80	150
AMI-201209-R82	0.82	25	25	100	1.00	150
AMI-201209-1R0	1.00	45	10	75	0.40	50
AMI-201209-1R2	1.20	45	10	65	0.50	50
AMI-201209-1R5	1.50	45	10	60	0.50	50
AMI-201209-1R8	1.80	45	10	55	0.60	50
AMI-201209-2R2	2.20	45	10	50	0.65	30
AMI-201209-2R7	2.70	45	10	45	0.75	30
AMI-201209-3R3	3.30	45	10	41	0.80	30
AMI-201209-3R9	3.90	45	10	38	0.90	30
AMI-201209-4R7	4.70	45	10	35	1.00	30
AMI-201209-5R6	5.60	50	4	32	0.90	15
AMI-201209-6R8	6.80	50	4	29	1.00	15
AMI-201209-8R2	8.20	50	4	26	1.10	25
AMI-201209-100	10.00	50	2	24	1.15	15
AMI-201212-2R7	2.70	45	10	45	0.75	30
AMI-201212-3R3	3.30	45	10	41	0.80	30
AMI-201212-3R9	3.90	45	10	38	0.90	30
AMI-201212-4R7	4.70	45	10	35	1.00	30
AMI-201212-5R6	5.60	50	4	32	0.90	15
AMI-201212-6R8	6.80	50	4	29	1.00	15
AMI-201212-8R2	8.20	50	4	26	1.10	25
AMI-201212-100	10.00	50	2	24	1.15	15

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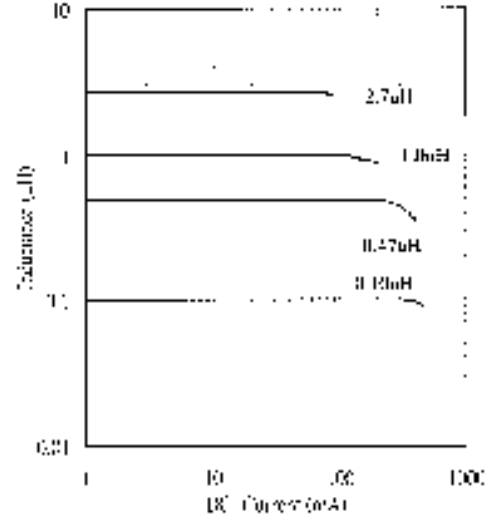
MULTILAYER CHIP INDUCTOR

TYPICAL ELECTRICAL CHARACTERISTIC CURVES

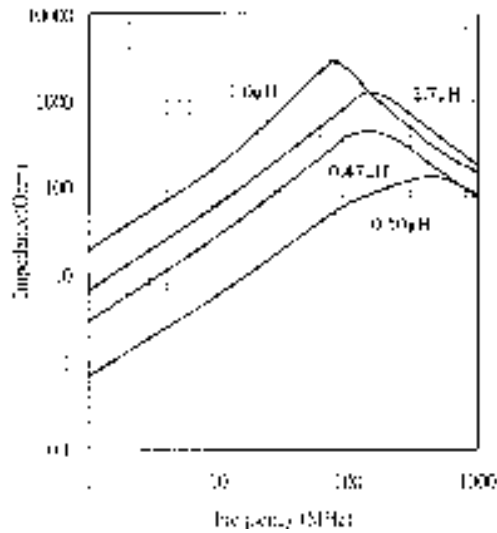
TEST INSTRUMENT: HP-4291A



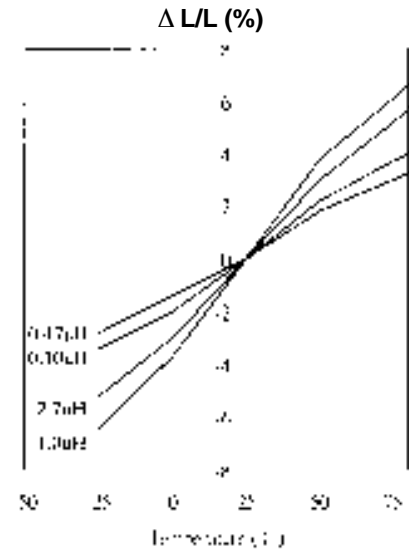
TEST INSTRUMENT: HP-4284



TEST INSTRUMENT: HP-4291A



TEST INSTRUMENT: HP-4284



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MULTILAYER CHIP INDUCTOR

ELECTRICAL CHARACTERISTIC

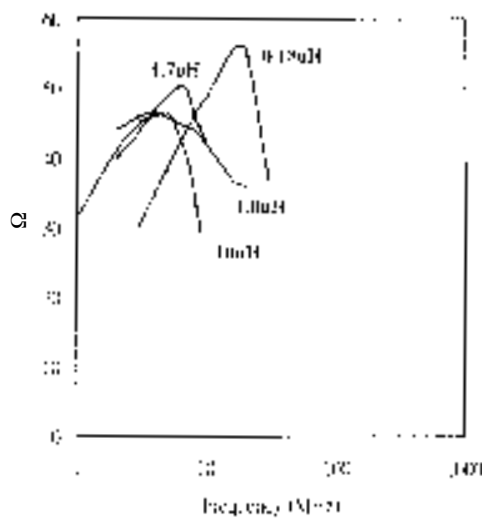
Tolerance J=±5%, K=±10%, M=±20%

Part Number	Inductance (μ H)	Q Min.	LQ Test	Self Resonant	DC Resistance	Rated Current
			Frequency (MHz)	Frequency (MHz) Min.	Rdc (Ω) Max.	Idc (mA) Max.
AMI-321611-47N	0.047±20%	20	50	320	0.15	300
AMI-321611-68N	0.068±20%	20	50	280	0.25	300
AMI-321611-R10	0.10	20	25	235	0.25	250
AMI-321611-R12	0.12	20	25	250	0.30	250
AMI-321611-R15	0.15	20	25	200	0.30	250
AMI-321611-R18	0.18	20	25	185	0.40	250
AMI-321611-R22	0.22	20	25	170	0.50	250
AMI-321611-R27	0.27	20	25	150	0.50	250
AMI-321611-R33	0.33	20	25	145	0.60	250
AMI-321611-R39	0.39	25	25	135	0.50	200
AMI-321611-R47	0.47	25	25	125	0.60	200
AMI-321611-R56	0.56	25	25	115	0.70	150
AMI-321611-R68	0.68	25	25	105	0.80	150
AMI-321611-R82	0.82	25	25	100	0.90	150
AMI-321611-1R0	1.00	30	10	75	0.40	100
AMI-321611-1R2	1.20	30	10	65	0.50	100
AMI-321611-1R5	1.50	30	10	60	0.50	50
AMI-321611-1R8	1.80	30	10	55	0.50	50
AMI-321611-2R2	2.20	30	10	50	0.60	50
AMI-321611-2R7	2.70	30	10	45	0.60	50
AMI-321611-3R3	3.30	30	10	41	0.70	50
AMI-321611-3R9	3.90	30	10	38	0.80	50
AMI-321611-4R7	4.70	30	10	35	0.90	50
AMI-321611-5R6	5.60	35	4	32	0.70	25
AMI-321611-6R8	6.80	35	4	29	0.90	25
AMI-321611-8R2	8.20	35	4	26	0.90	25
AMI-321611-100	10.00	35	2	24	1.00	25
AMI-321611-120	12.00	35	2	22	1.05	15
AMI-321611-150	15.00	30	1	19	0.70	5
AMI-321611-180	18.00	30	1	18	0.70	5
AMI-321611-220	22.00	30	1	16	0.90	5
AMI-321611-270	27.00	30	1	14	0.90	5
AMI-321611-330	33.00	30	0.4	13	1.05	5

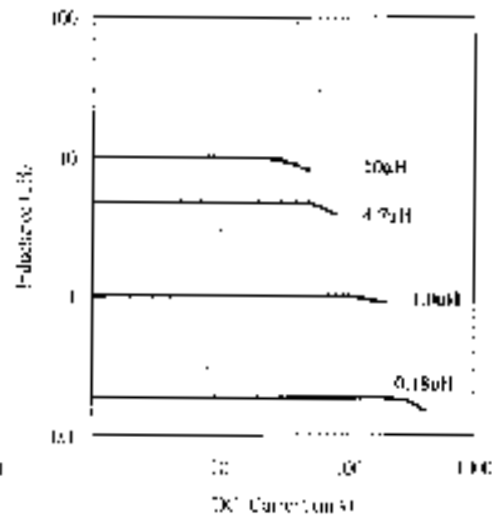
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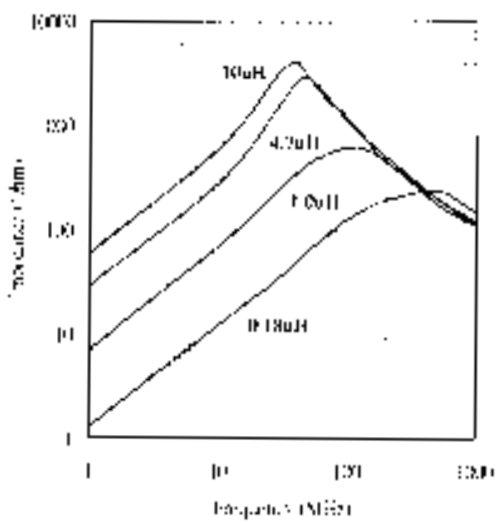
TEST INSTRUMENT: HP-4291A



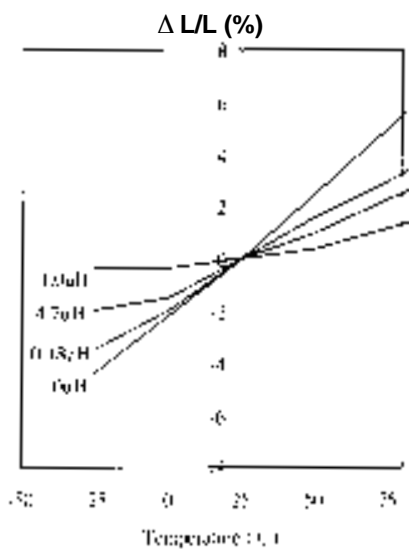
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ELECTRICAL CHARACTERISTIC

MECHANICAL PERFORMANCE TEST

ITEM	SPECIFICATION	TEST CONDITION		
SOLDERABILTY	MORE THAN 90% OF THE	SOLDER: H63A (EUTECTIC SOLDER)		
	TERMINAL	SOLDER TEMPERATURE: 230C ± 5°C		
	ELECTRODE SHALL BE	FLUX: ROSIN		
	COVERED WITH FRESH	DIP TIME: 3±1 SECONDS		
SOLDERING HEAT RESISTANCE	SOLDER.			
	THE CHIP SHALL NOT	SOLDER: H63A (EUTECTIC SOLDER)		
	CRACK.	SOLDER TEMPERATURE: 260C° ± 5°C		
	MORE THAN 75% OF THE	FLUX: ROSIN		
BENDING STRENGTH	TERMINAL ELECTRODE	DIP TIME: 10±1 SECONDS		
	SHALL BE COVERED WITH			
	SOLDER.			
		TYPE	A (MM)	KGF
BENDING STRENGTH	THE FERRITE SHALL NOT	AMI-160808	1.0	0.6
	BE DAMAGED BY FORCES	AMI-201209/12	1.4	1.0
	APPLIED ON THE RIGHT.	AMI-321611	2.0	2.0

CLIMATIC TEST

THERMAL SHOCK (TEMPERATURE CYCLE)		TEMPERATURE: -40°C, +85°C FOR 30 MINUTES EACH, 100 CYCLES
HUMIDITY RESISTANCE	NO MECHANICAL DAMAGE.	TEMPERATUER: +40°C
HIGH TEMPERATURE RESISTACE	INDUCTANCE SHALL BE WITHIN ±5% OF THE INITIAL VALUE AND Q (SHALL BE) WITHIN ± 30% OF THE INITAL VALUE.	HUMIDITY: 95%RH TIME: 1000 ± 12 HOURS TEMPERATURE: +85°C ± 2°C TIME: 1000 ± 12 HOURS
LOW TEMPERATURE RESISTANCE		TEMPERATURE: -40°C ± 2°C TIME: 1000 ± 12 HOURS