ER10M

TRADITIONAL Pb

Established Reliability

Wirewound, Molded, Level R Qualified, MIL-PRF-39010

M39010/08 Phenolic Core /09 Powdered Iron Core /10 Ferrite Core

PART NUMBER	MIL PART NUMBER	L µH	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
			MIL-PRF-39010/08 PHENOLIC CORE					
ER10M100*^	M39010/08BR10*^	0.10	40	25	680	0.08	1350	5, 10
ER10M110J^	M39010/08BR11J^	0.11	40	25	640	0.09	1270	5
ER10M120*^	M39010/08BR12*^	0.12	40	25	640	0.09	1270	5, 10
ER10M130J^	M39010/08BR13J^	0.13	38	25	600	0.10	1200	5
ER10M150*^	M39010/08BR15*^	0.15	38	25	600	0.10	1200	5, 10
ER10M160J^	M39010/08BR16J^	0.16	35	25	550	0.12	1105	5
ER10M180*^	M39010/08BR18*^	0.18	35	25	550	0.12	1105	5, 10
ER10M200J^	M39010/08BR20J^	0.20	33	25	510	0.14	1025	5
ER10M220*^	M39010/08BR22*^	0.22	33	25	510	0.14	1025	5, 10
ER10M240J^	M39010/08BR24J^	0.24	33	25	430	0.16	960	5
ER10M270*^	M39010/08BR27*^	0.27	33	25	430	0.16	960	5, 10
ER10M300J^	M39010/08BR30J^	0.30	30	25	410	0.22	815	5
ER10M330*^	M39010/08BR33*^	0.33	30	25	410	0.22	815	5, 10
ER10M360J^	M39010/08BR36J^	0.36	30	25	365	0.30	700	5
ER10M390*^	M39010/08BR39*^	0.39	30	25	365	0.30	700	5, 10
ER10M430J^	M39010/08BR43J^	0.43	30	25	330	0.35	650	5
ER10M470*^	M39010/08BR47*^	0.47	30	25	330	0.35	650	5, 10
ER10M510J^	M39010/08BR51J^	0.51	30	25	300	0.50	545	5
ER10M560*^	M39010/08BR56*^	0.56	30	25	300	0.50	545	5,10
ER10M620J^	M39010/08BR62J^	0.62	28	25	275	0.60	495	5
ER10M680*^	M39010/08BR68*^	0.68	28	25	275	0.60	495	5,10
ER10M750J^	M39010/08BR75J^	0.75	28	25	250	0.85	415	5
ER10M820*^	M39010/08BR82*^	0.82	28	25	250	0.85	415	5, 10
ER10M910J^	M39010/08BR91J^	0.91	25	25	230	1.0	385	5
ER10M101*^	M39010/08B1R0*^	1.0	25	25	230	1.0	385	5, 10

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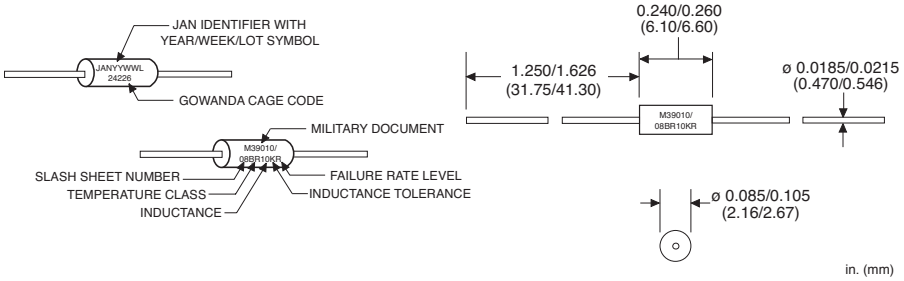
* Substitute “J” for 5% tolerance or “K” for 10% tolerance

^ Substitute R, P, or M for failure rate level

2 SIDED LASER MARKING



NOTES:

- Operating Temperature Range:
  -55°C to +125°C for /08 (Phenolic)
  -55°C to +105°C for /09 & /10
  (Powdered Iron & Ferrite)
- Current Rating @ a 90°C Ambient
  35°C Rise for /08 (Phenolic)
  15°C Rise for /09 & /10 (Powdered Iron & Ferrite)
- Temperature Class:
  Class B (125°C) for /08 (Phenolic)
  Class A (105°C) for /09 & /10
  (Powdered Iron & Ferrite)
- DWV 1000 Vrms @ Sea Level
  300 Vrms @ 70,000 Feet for /08 & /09
  (Phenolic & Powdered Iron)
  200 Vrms @ 70,000 Feet for /10 (Ferrite)
- Weight maximum 0.283 grams (0.01 ounces)
- Body color is Black
- This series is qualified to Level R but it is also available for Level M and Level P applications. See ^ note below table.

TAPE AND REEL SPECS:

Pcs./Reel maximum:	2500
Pitch between parts:	0.200 in.
Inside tape spacing:	2.062 in.
Reel diameter:	12 in.
Class:	1

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ER10M

TRADITIONAL Pb

Established Reliability

Wirewound, Molded, Level R Qualified, MIL-PRF-39010

M39010/08 Phenolic Core /09 Powdered Iron Core /10 Ferrite Core

PART NUMBER	MIL PART NUMBER	L µH	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
MIL-PRF-39010/09 POWERED IRON CORE								
ER10M111J^	M39010/09A1R1J^	1.1	25	7.9	150	0.18	590	5
ER10M121*^	M39010/09A1R2*^	1.2	25	7.9	150	0.18	590	5, 10
ER10M131J^	M39010/09A1R3J^	1.3	25	7.9	140	0.22	535	5
ER10M151*^	M39010/09A1R5*^	1.5	28	7.9	140	0.22	535	5, 10
ER10M161J^	M39010/09A1R6J^	1.6	28	7.9	125	0.30	455	5
ER10M181*^	M39010/09A1R8*^	1.8	30	7.9	125	0.30	455	5, 10
ER10M201J^	M39010/09A2R0J^	2.0	30	7.9	115	0.40	395	5
ER10M221*^	M39010/09A2R2*^	2.2	30	7.9	115	0.40	395	5, 10
ER10M241J^	M39010/09A2R4J^	2.4	30	7.9	100	0.55	335	5
ER10M271*^	M39010/09A2R7*^	2.7	37	7.9	100	0.55	335	5, 10
ER10M301J^	M39010/09A3R0J^	3.0	37	7.9	90	0.85	270	5
ER10M331*^	M39010/09A3R3*^	3.3	45	7.9	90	0.85	270	5, 10
ER10M361J^	M39010/09A3R6J^	3.6	45	7.9	80	1.0	250	5
ER10M391*^	M39010/09A3R9*^	3.9	45	7.9	80	1.0	250	5, 10
ER10M431J^	M39010/09A4R3J^	4.3	45	7.9	75	1.2	230	5
ER10M471*^	M39010/09A4R7*^	4.7	45	7.9	75	1.2	230	5, 10
ER10M511J^	M39010/09A5R1J^	5.1	45	7.9	65	1.8	185	5
ER10M561*^	M39010/09A5R6*^	5.6	50	7.9	65	1.8	185	5, 10
ER10M621J^	M39010/09A6R2J^	6.2	50	7.9	60	2.0	175	5
ER10M681*^	M39010/09A6R8*^	6.8	50	7.9	60	2.0	175	5, 10
ER10M751J^	M39010/09A7R5J^	7.5	50	7.9	55	2.7	155	5
ER10M821*^	M39010/09A8R2*^	8.2	55	7.9	55	2.7	155	5, 10
ER10M911J^	M39010/09A9R1J^	9.1	55	7.9	50	3.7	130	5
ER10M102*^	M39010/09A100*^	10	55	7.9	50	3.7	130	5, 10
ER10M112J^	M39010/09A110J^	11	45	2.5	40	2.7	130	5
ER10M122*^	M39010/09A120*^	12	45	2.5	40	2.7	155	5, 10
ER10M132J^	M39010/09A130J^	13	40	2.5	35	2.8	150	5
ER10M152*^	M39010/09A150*^	15	40	2.5	35	2.8	150	5, 10
ER10M162J^	M39010/09A160J^	16	40	2.5	30	3.1	145	5
ER10M182*^	M39010/09A180*^	18	50	2.5	30	3.1	145	5, 10
ER10M202J^	M39010/09A200J^	20	50	2.5	25	3.3	140	5
ER10M222*^	M39010/09A220*^	22	50	2.5	25	3.3	140	5, 10
ER10M242J^	M39010/09A240J^	24	50	2.5	20	3.5	135	5
ER10M272*^	M39010/09A270*^	27	50	2.5	20	3.5	135	5, 10

* Substitute "J" for 5% tolerance or "K" for 10% tolerance

^ Substitute R, P, or M for failure rate level

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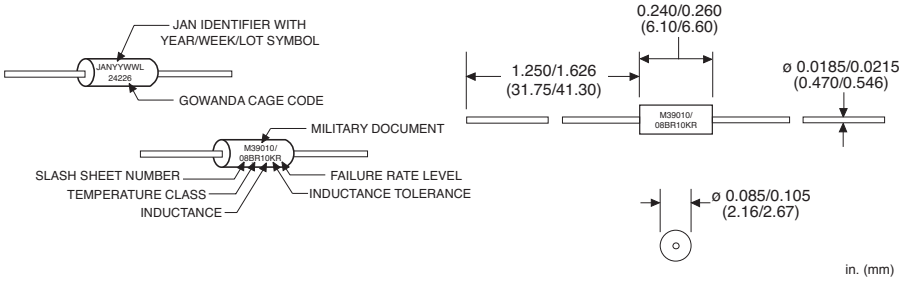
2 SIDED LASER MARKING



NOTES:

- Operating Temperature Range:
  -55°C to +125°C for /08 (Phenolic)
  -55°C to +105°C for /09 & /10
  (Powdered Iron & Ferrite)
- Current Rating @ a 90°C Ambient
  35°C Rise for /08 (Phenolic)
  15°C Rise for /09 & /10 (Powdered Iron & Ferrite)
- Temperature Class:
  Class B (125°C) for /08 (Phenolic)
  Class A (105°C) for /09 & /10
  (Powdered Iron & Ferrite)
- DWV 1000 Vrms @ Sea Level
  300 Vrms @ 70,000 Feet for /08 & /09
  (Phenolic & Powdered Iron)
  200 Vrms @ 70,000 Feet for /10 (Ferrite)
- Weight maximum 0.283 grams (0.01 ounces)
- Body color is Black
- This series is qualified to Level R but it is also available for Level M and Level P applications. See ^ note below table.

TAPE AND REEL SPECS:

Pcs./Reel maximum:	2500
Pitch between parts:	0.200 in.
Inside tape spacing:	2.062 in.
Reel diameter:	12 in.
Class:	1

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ER10M

TRADITIONAL Pb

Established Reliability

Wirewound, Molded, Level R Qualified, MIL-PRF-39010

M39010/08 Phenolic Core /09 Powdered Iron Core /10 Ferrite Core

PART NUMBER	MIL PART NUMBER	L µH	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
			MIL-PRF-39010/10 FERRITE CORE					
ER10M302J^	M39010/10A300J^	30	45	2.5	24	3.4	130	5
ER10M332*^	M39010/10A330*^	33	45	2.5	24	3.4	130	5, 10
ER10M362J^	M39010/10A360J^	36	45	2.5	22	3.6	125	5
ER10M392*^	M39010/10A390*^	39	45	2.5	22	3.6	125	5, 10
ER10M432J^	M39010/10A430J^	43	45	2.5	20	4.5	110	5
ER10M472*^	M39010/10A470*^	47	45	2.5	20	4.5	110	5, 10
ER10M512J^	M39010/10A510J^	51	45	2.5	18	5.7	100	5
ER10M562*^	M39010/10A560*^	56	45	2.5	18	5.7	100	5, 10
ER10M622J^	M39010/10A620J^	62	45	2.5	15	6.7	92	5
ER10M682*^	M39010/10A680*^	68	50	2.5	15	6.7	92	5, 10
ER10M752J^	M39010/10A750J^	75	50	2.5	14	7.3	88	5
ER10M822*^	M39010/10A820*^	82	50	2.5	14	7.3	88	5, 10
ER10M912J^	M39010/10A910J^	91	50	2.5	13	8.0	84	5
ER10M103*^	M39010/10A101*^	100	50	2.5	13	8.0	84	5, 10
ER10M113J^	M39010/10A111J^	110	30	0.79	12	13	66	5
ER10M123*^	M39010/10A121*^	120	30	0.79	12	13	66	5, 10
ER10M133J^	M39010/10A131J^	130	30	0.79	11	15	61	5
ER10M153*^	M39010/10A151*^	150	30	0.79	11	15	61	5, 10
ER10M163J^	M39010/10A161J^	160	30	0.79	10	17	57	5
ER10M183*^	M39010/10A181*^	180	30	0.79	10	17	57	5, 10
ER10M203J^	M39010/10A201J^	200	30	0.79	9.0	21	52	5
ER10M223*^	M39010/10A221*^	220	30	0.79	9.0	21	52	5, 10
ER10M243J^	M39010/10A241J^	240	30	0.79	8.0	25	47	5
ER10M273*^	M39010/10A271*^	270	30	0.79	8.0	25	47	5, 10
ER10M303J^	M39010/10A301J^	300	30	0.79	7.0	28	45	5
ER10M333*^	M39010/10A331*^	330	30	0.79	7.0	28	45	5, 10
ER10M363J^	M39010/10A361J^	360	30	0.79	6.5	35	40	5
ER10M393*^	M39010/10A391*^	390	30	0.79	6.5	35	40	5, 10
ER10M433J^	M39010/10A431J^	430	30	0.79	6.0	42	36	5
ER10M473*^	M39010/10A471*^	470	30	0.79	6.0	42	36	5, 10
ER10M513J^	M39010/10A511J^	510	30	0.79	5.0	46	35	5
ER10M563*^	M39010/10A561*^	560	30	0.79	5.0	46	35	5, 10
ER10M623J^	M39010/10A621J^	620	30	0.79	4.0	60	30	5
ER10M683*^	M39010/10A681*^	680	30	0.79	4.0	60	30	5, 10
ER10M753J^	M39010/10A751J^	750	30	0.79	3.8	65	29	5
ER10M823*^	M39010/10A821*^	820	30	0.79	3.8	65	29	5, 10
ER10M913J^	M39010/10A911J^	910	30	0.79	3.4	72	28	5
ER10M104*^	M39010/10A102*^	1000	30	0.79	3.4	72	28	5, 10

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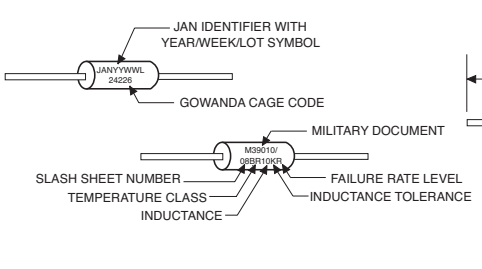

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Pcs./Reel maximum:	2500
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Inside tape spacing:	2.062 in.
Reel diameter:	12 in.
Class:	1

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