

ER10M

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

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

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

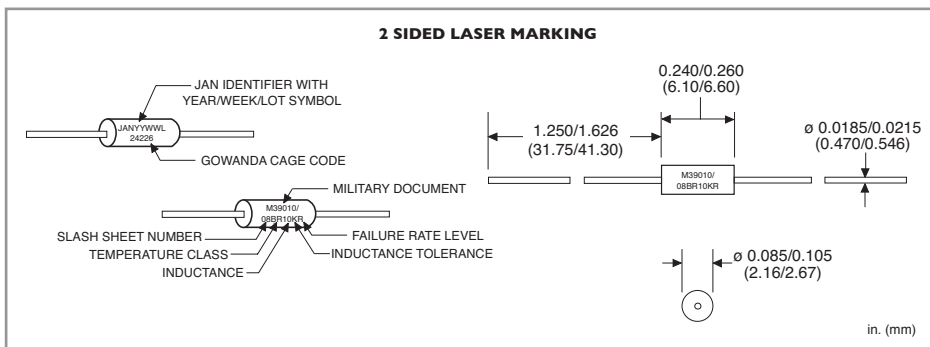
continued next page

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



continued from previous page

ER10M



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 μ H	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^A	M39010/09A1R2^A	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^A	M39010/09A1R5^A	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^A	M39010/09A1R8^A	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^A	M39010/09A2R2^A	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^A	M39010/09A2R7^A	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^A	M39010/09A3R3^A	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^A	M39010/09A3R9^A	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^A	M39010/09A4R7^A	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^A	M39010/09A5R6^A	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^A	M39010/09A6R8^A	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^A	M39010/09A8R2^A	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^A	M39010/09A100^A	10	55	7.9	50	3.7	130	5, 10
ER10M112J^	M39010/09A110J^	11	45	2.5	40	2.7	130	5
ER10M122^A	M39010/09A120^A	12	45	2.5	40	2.7	155	5, 10
ER10M132J^	M39010/09A130J^	13	40	2.5	35	2.8	150	5
ER10M152^A	M39010/09A150^A	15	40	2.5	35	2.8	150	5, 10
ER10M162J^	M39010/09A160J^	16	40	2.5	30	3.1	145	5
ER10M182^A	M39010/09A180^A	18	50	2.5	30	3.1	145	5, 10
ER10M202J^	M39010/09A200J^	20	50	2.5	25	3.3	140	5
ER10M222^A	M39010/09A220^A	22	50	2.5	25	3.3	140	5, 10
ER10M242J^	M39010/09A240J^	24	50	2.5	20	3.5	135	5
ER10M272^A	M39010/09A270^A	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

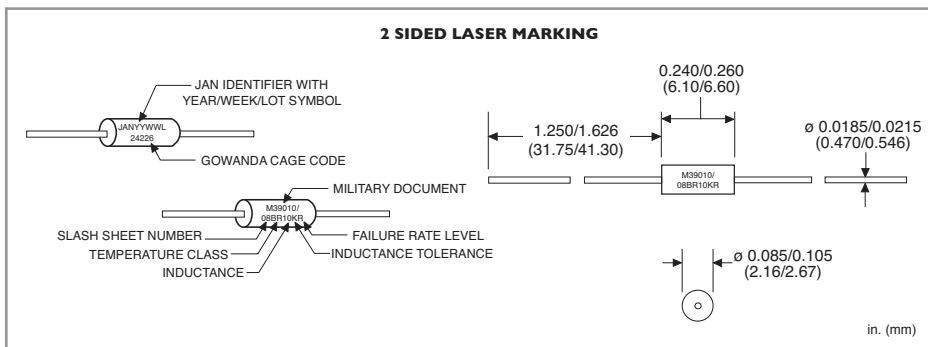
continued next page

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



continued from previous page

ER10M



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

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

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

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

