

## ER5025S



*Established Reliability*

**Wirewound, Shielded, Molded, Level M Qualified, MIL-PRF-39010**

M39010/17 Phenolic Core & Iron Sleeve /17 Powdered Iron Core & Iron Sleeve

/18 Ferrite Core & Ferrite Sleeve

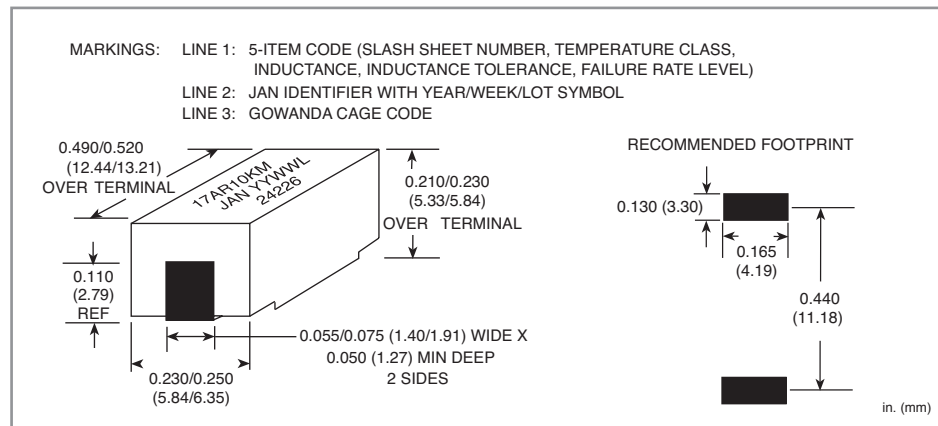


PART NUMBER	MIL PART NUMBER	L μH	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
MIL-PRF-39010/17 PHENOLIC CORE & IRON SLEEVE								
ER5025S-100*^	M39010/17AR10*^	0.10	45	25	450	0.025	2245	5, 10
ER5025S-110J^	M39010/17AR11J^	0.11	45	25	425	0.034	1925	5
ER5025S-120*^	M39010/17AR12*^	0.12	45	25	425	0.034	1925	5, 10
ER5025S-130J^	M39010/17AR13J^	0.13	45	25	400	0.037	1845	5
ER5025S-150*^	M39010/17AR15*^	0.15	45	25	400	0.037	1845	5, 10
ER5025S-160J^	M39010/17AR16J^	0.16	45	25	350	0.047	1635	5
ER5025S-180*^	M39010/17AR18*^	0.18	45	25	350	0.047	1635	5, 10
ER5025S-200J^	M39010/17AR20J^	0.20	40	25	325	0.067	1370	5
ER5025S-220*^	M39010/17AR22*^	0.22	40	25	325	0.067	1370	5, 10
ER5025S-240J^	M39010/17AR24J^	0.24	40	25	300	0.110	1070	5
ER5025S-270*^	M39010/17AR27*^	0.27	40	25	300	0.110	1070	5, 10
ER5025S-300J^	M39010/17AR30J^	0.30	40	25	275	0.130	985	5
ER5025S-330*^	M39010/17AR33*^	0.33	40	25	275	0.130	985	5, 10
ER5025S-360J^	M39010/17AR36J^	0.36	40	25	250	0.180	835	5
ER5025S-390*^	M39010/17AR39*^	0.39	40	25	250	0.180	835	5, 10
ER5025S-430J^	M39010/17AR43J^	0.43	40	25	235	0.250	710	5
ER5025S-470*^	M39010/17AR47*^	0.47	40	25	235	0.250	710	5, 10
ER5025S-510J^	M39010/17AR51J^	0.51	40	25	210	0.330	615	5
ER5025S-560*^	M39010/17AR56*^	0.56	40	25	210	0.330	615	5, 10
ER5025S-620J^	M39010/17AR62J^	0.62	40	25	190	0.450	530	5
ER5025S-680*^	M39010/17AR68*^	0.68	40	25	190	0.450	530	5, 10
ER5025S-750J^	M39010/17AR75J^	0.75	40	25	180	0.590	460	5
ER5025S-820*^	M39010/17AR82*^	0.82	40	25	180	0.590	460	5, 10

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

^ Substitute M for failure rate level

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**NOTES:**

- Operating Temperature Range: -55°C to +105°C
- Current Rating @ a 90°C Ambient 15°C Rise
- Temperature Class: Class A (105°C)
- DWV 500 Vrms @ Sea Level 200 Vrms @ 70,000 Feet
- Weight maximum 1.2 grams (0.042 ounces)
- Magnetic Shielding: 3% Max. Coupling at 0.050 in. (1.27 mm) spacing
- Body color is Black
- This series is qualified to Level M

**TAPE AND REEL SPECS:**

Pcs./Reel maximum:	800
Pitch between parts:	12 mm
Tape width:	24 mm
Reel diameter:	13 in.

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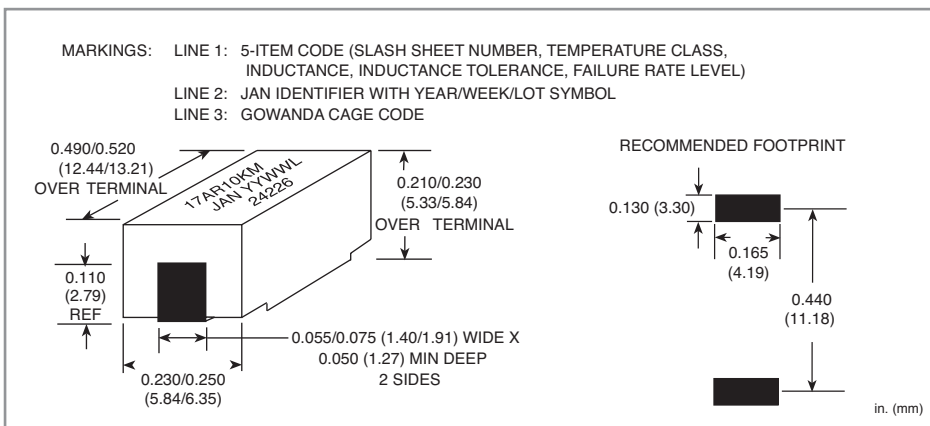
**ER5025S**  **Established Reliability**  
**Wirewound, Shielded, Molded, Level M Qualified, MIL-PRF-39010**  
 M39010/17 Phenolic Core & Iron Sleeve /I7 Powdered Iron Core & Iron Sleeve  
 /I8 Ferrite Core & Ferrite Sleeve



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-39010/17 POWDERED IRON CORE & IRON SLEEVE								
ER5025S-910J <sup>^</sup>	M39010/17AR91J <sup>^</sup>	0.91	40	25	119	0.070	1340	5
ER5025S-101 <sup>*^</sup>	M39010/17A1R0 <sup>*^</sup>	1.0	40	25	119	0.070	1340	5, 10
ER5025S-111J <sup>^</sup>	M39010/17A1R1J <sup>^</sup>	1.1	40	7.9	111	0.100	1120	5
ER5025S-121 <sup>*^</sup>	M39010/17A1R2 <sup>*^</sup>	1.2	40	7.9	111	0.100	1120	5, 10
ER5025S-131J <sup>^</sup>	M39010/17A1R3J <sup>^</sup>	1.3	40	7.9	98	0.120	1025	5
ER5025S-151 <sup>*^</sup>	M39010/17A1R5 <sup>*^</sup>	1.5	40	7.9	98	0.120	1025	5, 10
ER5025S-161J <sup>^</sup>	M39010/17A1R6J <sup>^</sup>	1.6	40	7.9	89	0.140	950	5
ER5025S-181 <sup>*^</sup>	M39010/17A1R8 <sup>*^</sup>	1.8	40	7.9	89	0.140	950	5, 10
ER5025S-201J <sup>^</sup>	M39010/17A2R0J <sup>^</sup>	2.0	40	7.9	85	0.190	815	5
ER5025S-221 <sup>*^</sup>	M39010/17A2R2 <sup>*^</sup>	2.2	40	7.9	85	0.190	815	5, 10
ER5025S-241J <sup>^</sup>	M39010/17A2R4J <sup>^</sup>	2.4	40	7.9	78	0.280	670	5
ER5025S-271 <sup>*^</sup>	M39010/17A2R7 <sup>*^</sup>	2.7	40	7.9	78	0.280	670	5, 10
ER5025S-301J <sup>^</sup>	M39010/17A3R0J <sup>^</sup>	3.0	40	7.9	72	0.350	600	5
ER5025S-331 <sup>*^</sup>	M39010/17A3R3 <sup>*^</sup>	3.3	40	7.9	72	0.350	600	5, 10
ER5025S-361J <sup>^</sup>	M39010/17A3R6J <sup>^</sup>	3.6	40	7.9	64	0.400	560	5
ER5025S-391 <sup>*^</sup>	M39010/17A3R9 <sup>*^</sup>	3.9	40	7.9	64	0.400	560	5, 10
ER5025S-431J <sup>^</sup>	M39010/17A4R3J <sup>^</sup>	4.3	40	7.9	60	0.550	480	5
ER5025S-471 <sup>*^</sup>	M39010/17A4R7 <sup>*^</sup>	4.7	40	7.9	60	0.550	480	5, 10
ER5025S-511J <sup>^</sup>	M39010/17A5R1J <sup>^</sup>	5.1	40	7.9	55	0.720	420	5
ER5025S-561 <sup>*^</sup>	M39010/17A5R6 <sup>*^</sup>	5.6	40	7.9	55	0.720	420	5, 10
ER5025S-621J <sup>^</sup>	M39010/17A6R2J <sup>^</sup>	6.2	40	7.9	47	1.02	350	5
ER5025S-681 <sup>*^</sup>	M39010/17A6R8 <sup>*^</sup>	6.8	40	7.9	47	1.02	350	5, 10
ER5025S-751J <sup>^</sup>	M39010/17A7R5J <sup>^</sup>	7.5	40	7.9	43	1.32	310	5
ER5025S-821 <sup>*^</sup>	M39010/17A8R2 <sup>*^</sup>	8.2	40	7.9	43	1.32	310	5, 10
ER5025S-911J <sup>^</sup>	M39010/17A9R1J <sup>^</sup>	9.1	40	7.9	39	1.62	280	5
ER5025S-102 <sup>*^</sup>	M39010/17A100 <sup>*^</sup>	10	40	7.9	39	1.62	280	5, 10
ER5025S-112J <sup>^</sup>	M39010/17A110J <sup>^</sup>	11	40	2.5	37	2.00	250	5
ER5025S-122 <sup>*^</sup>	M39010/17A120 <sup>*^</sup>	12	40	2.5	37	2.00	250	5, 10

\* Substitute "J" for 5% tolerance or "K" for 10% tolerance  
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**TAPE AND REEL SPECS:**

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**Wirewound, Shielded, Molded, Level M Qualified, MIL-PRF-39010**  
 M39010/17 Phenolic Core & Iron Sleeve /17 Powdered Iron Core & Iron Sleeve  
 /18 Ferrite Core & Ferrite Sleeve

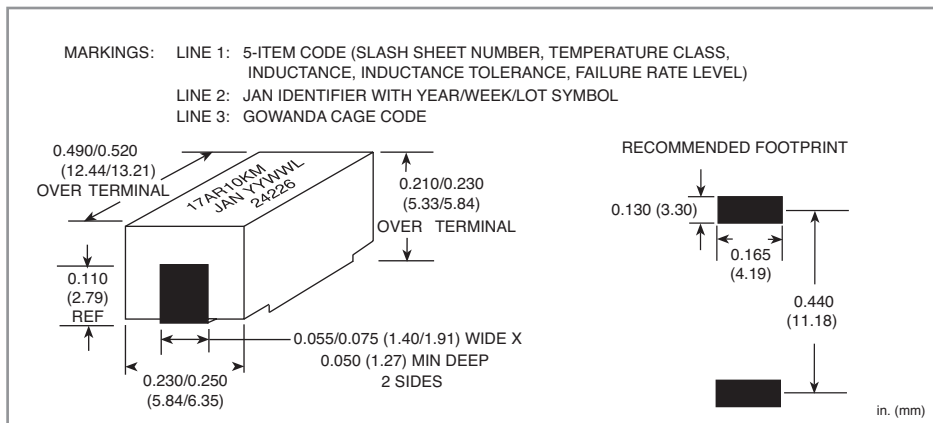


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MIL-PRF-39010/18 FERRITE CORE & FERRITE SLEEVE									
ER5025S-152* <sup>A</sup>	M39010/18A150* <sup>A</sup>	15	40	2.5	42	0.80	395	5, 10	300
ER5025S-162J <sup>A</sup>	M39010/18A160J <sup>A</sup>	16	40	2.5	38	0.89	375	5	250
ER5025S-182* <sup>A</sup>	M39010/18A180* <sup>A</sup>	18	40	2.5	38	0.89	375	5, 10	250
ER5025S-202J <sup>A</sup>	M39010/18A200J <sup>A</sup>	20	40	2.5	35	0.96	360	5	210
ER5025S-222* <sup>A</sup>	M39010/18A220* <sup>A</sup>	22	40	2.5	35	0.96	360	5, 10	210
ER5025S-242J <sup>A</sup>	M39010/18A240J <sup>A</sup>	24	40	2.5	32	1.19	325	5	195
ER5025S-272* <sup>A</sup>	M39010/18A270* <sup>A</sup>	27	40	2.5	32	1.19	325	5, 10	195
ER5025S-302J <sup>A</sup>	M39010/18A300J <sup>A</sup>	30	40	2.5	29	1.37	300	5	160
ER5025S-332* <sup>A</sup>	M39010/18A330* <sup>A</sup>	33	40	2.5	29	1.37	300	5, 10	160
ER5025S-362J <sup>A</sup>	M39010/18A360J <sup>A</sup>	36	40	2.5	25	1.93	255	5	150
ER5025S-392* <sup>A</sup>	M39010/18A390* <sup>A</sup>	39	40	2.5	25	1.93	255	5, 10	150
ER5025S-432J <sup>A</sup>	M39010/18A430J <sup>A</sup>	43	40	2.5	23	2.11	245	5	135
ER5025S-472* <sup>A</sup>	M39010/18A470* <sup>A</sup>	47	40	2.5	23	2.11	245	5, 10	135
ER5025S-512J <sup>A</sup>	M39010/18A510J <sup>A</sup>	51	40	2.5	21	2.23	235	5	124
ER5025S-562* <sup>A</sup>	M39010/18A560* <sup>A</sup>	56	40	2.5	21	2.23	235	5, 10	124
ER5025S-622J <sup>A</sup>	M39010/18A620J <sup>A</sup>	62	40	2.5	18	2.70	215	5	122
ER5025S-682* <sup>A</sup>	M39010/18A680* <sup>A</sup>	68	40	2.5	18	2.70	215	5, 10	122
ER5025S-752J <sup>A</sup>	M39010/18A750J <sup>A</sup>	75	40	2.5	10.5	2.44	225	5	120
ER5025S-822* <sup>A</sup>	M39010/18A820* <sup>A</sup>	82	40	2.5	10.5	2.44	225	5, 10	120
ER5025S-912J <sup>A</sup>	M39010/18A910J <sup>A</sup>	91	40	2.5	10.0	3.12	200	5	113
ER5025S-103* <sup>A</sup>	M39010/18A101* <sup>A</sup>	100	40	2.5	10.0	3.12	200	5, 10	113
ER5025S-113J <sup>A</sup>	M39010/18A111J <sup>A</sup>	110	55	0.79	9.7	3.60	185	5	98
ER5025S-123* <sup>A</sup>	M39010/18A121* <sup>A</sup>	120	55	0.79	9.7	3.60	185	5, 10	98
ER5025S-133J <sup>A</sup>	M39010/18A131J <sup>A</sup>	130	55	0.79	8.5	4.10	175	5	84
ER5025S-153* <sup>A</sup>	M39010/18A151* <sup>A</sup>	150	55	0.79	8.5	4.10	175	5, 10	84
ER5025S-163J <sup>A</sup>	M39010/18A161J <sup>A</sup>	160	55	0.79	8.0	4.40	170	5	76
ER5025S-183* <sup>A</sup>	M39010/18A181* <sup>A</sup>	180	55	0.79	8.0	4.40	170	5, 10	76
ER5025S-203J <sup>A</sup>	M39010/18A201J <sup>A</sup>	200	55	0.79	7.5	5.00	160	5	67
ER5025S-223* <sup>A</sup>	M39010/18A221* <sup>A</sup>	220	55	0.79	7.5	5.00	160	5, 10	67
ER5025S-243J <sup>A</sup>	M39010/18A241J <sup>A</sup>	240	55	0.79	7.0	5.80	145	5	60
ER5025S-273* <sup>A</sup>	M39010/18A271* <sup>A</sup>	270	55	0.79	7.0	5.80	145	5, 10	60
ER5025S-303J <sup>A</sup>	M39010/18A301J <sup>A</sup>	300	55	0.79	6.5	6.40	140	5	55
ER5025S-333* <sup>A</sup>	M39010/18A331* <sup>A</sup>	330	55	0.79	6.5	6.40	140	5, 10	55
ER5025S-363J <sup>A</sup>	M39010/18A361J <sup>A</sup>	360	60	0.79	6.2	7.40	130	5	46
ER5025S-393* <sup>A</sup>	M39010/18A391* <sup>A</sup>	390	60	0.79	6.2	7.40	130	5, 10	46
ER5025S-433J <sup>A</sup>	M39010/18A431J <sup>A</sup>	430	60	0.79	5.7	9.50	115	5	43
ER5025S-473* <sup>A</sup>	M39010/18A471* <sup>A</sup>	470	60	0.79	5.7	9.50	115	5, 10	43
ER5025S-513J <sup>A</sup>	M39010/18A511J <sup>A</sup>	510	60	0.79	4.7	10.5	110	5	40
ER5025S-563* <sup>A</sup>	M39010/18A561* <sup>A</sup>	560	60	0.79	4.7	10.5	110	5, 10	40
ER5025S-623J <sup>A</sup>	M39010/18A621J <sup>A</sup>	620	60	0.79	4.5	11.8	105	5	38
ER5025S-683* <sup>A</sup>	M39010/18A681* <sup>A</sup>	680	60	0.79	4.5	11.8	105	5, 10	38
ER5025S-753J <sup>A</sup>	M39010/18A751J <sup>A</sup>	750	60	0.79	4.2	13.0	100	5	33
ER5025S-823* <sup>A</sup>	M39010/18A821* <sup>A</sup>	820	60	0.79	4.2	13.0	100	5, 10	33
ER5025S-913J <sup>A</sup>	M39010/18A911J <sup>A</sup>	910	60	0.79	3.8	17.5	85	5	29
ER5025S-104* <sup>A</sup>	M39010/18A102* <sup>A</sup>	1000	60	0.79	3.8	17.5	85	5, 10	29

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

<sup>A</sup> Substitute M for failure rate level

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**NOTES:**

- Operating Temperature Range: -55°C to +105°C
- Current Rating @ a 90°C Ambient 15°C Rise
- Temperature Class: Class A (105°C)
- DWV 500 Vrms @ Sea Level 200 Vrms @ 70,000 Feet
- Weight maximum 1.2 grams (0.042 ounces)
- Magnetic Shielding: 3% Max. Coupling at 0.050 in. (1.27 mm) spacing
- Body color is Black
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**TAPE AND REEL SPECS:**

Pcs./Reel maximum:	800
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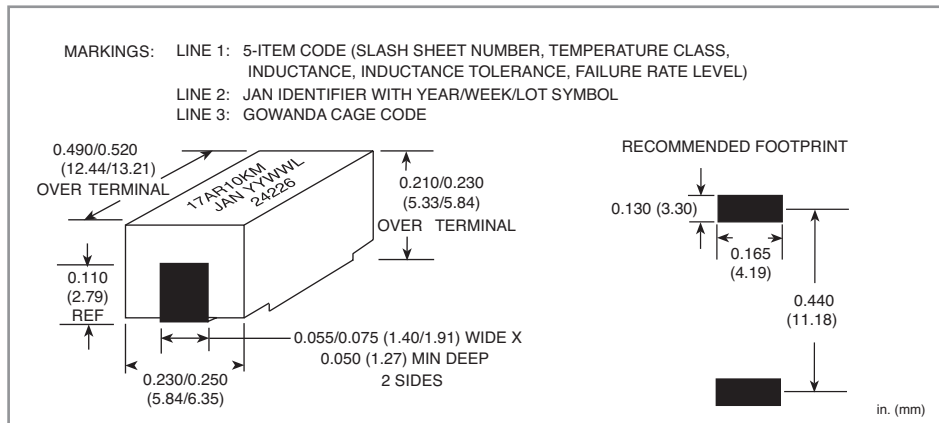
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**M39010/17 Phenolic Core & Iron Sleeve /17 Powdered Iron Core & Iron Sleeve**  
**/18 Ferrite Core & Ferrite Sleeve**



PART NUMBER	MIL PART NUMBER	L μH	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE	INC I mA DC
MIL-PRF-39010/18 FERRITE CORE & FERRITE SLEEVE									
ER5025S-114J <sup>^</sup>	M39010/18A112J <sup>^</sup>	1100	45	0.25	3.0	22.1	75	5	28
ER5025S-124* <sup>^</sup>	M39010/18A122* <sup>^</sup>	1200	45	0.25	3.0	22.1	75	5, 10	28
ER5025S-134J <sup>^</sup>	M39010/18A132J <sup>^</sup>	1300	45	0.25	2.8	26.5	70	5	27
ER5025S-154* <sup>^</sup>	M39010/18A152* <sup>^</sup>	1500	45	0.25	2.8	26.5	70	5, 10	27
ER5025S-164J <sup>^</sup>	M39010/18A162J <sup>^</sup>	1600	45	0.25	2.6	29.9	65	5	24
ER5025S-184* <sup>^</sup>	M39010/18A182* <sup>^</sup>	1800	45	0.25	2.6	29.9	65	5, 10	24
ER5025S-204J <sup>^</sup>	M39010/18A202J <sup>^</sup>	2000	45	0.25	2.4	33.8	60	5	22
ER5025S-224* <sup>^</sup>	M39010/18A222* <sup>^</sup>	2200	45	0.25	2.4	33.8	60	5, 10	22
ER5025S-244J <sup>^</sup>	M39010/18A242J <sup>^</sup>	2400	45	0.25	2.2	47.3	50	5	20
ER5025S-274* <sup>^</sup>	M39010/18A272* <sup>^</sup>	2700	45	0.25	2.2	47.3	50	5, 10	20
ER5025S-304J <sup>^</sup>	M39010/18A302J <sup>^</sup>	3000	45	0.25	2.0	53.0	45	5	19
ER5025S-334* <sup>^</sup>	M39010/18A332* <sup>^</sup>	3300	45	0.25	2.0	53.0	45	5, 10	19
ER5025S-364J <sup>^</sup>	M39010/18A362J <sup>^</sup>	3600	45	0.25	1.9	73.8	40	5	17
ER5025S-394* <sup>^</sup>	M39010/18A392* <sup>^</sup>	3900	45	0.25	1.9	73.8	40	5, 10	17
ER5025S-434J <sup>^</sup>	M39010/18A432J <sup>^</sup>	4300	45	0.25	1.7	81.6	38	5	15
ER5025S-474* <sup>^</sup>	M39010/18A472* <sup>^</sup>	4700	45	0.25	1.7	81.6	38	5, 10	15
ER5025S-514J <sup>^</sup>	M39010/18A512J <sup>^</sup>	5100	44	0.25	1.6	98.9	36	5	14
ER5025S-564* <sup>^</sup>	M39010/18A562* <sup>^</sup>	5600	44	0.25	1.6	98.9	36	5, 10	14
ER5025S-624J <sup>^</sup>	M39010/18A622J <sup>^</sup>	6200	40	0.25	1.4	111.0	34	5	13
ER5025S-684* <sup>^</sup>	M39010/18A682* <sup>^</sup>	6800	40	0.25	1.4	111.0	34	5, 10	13
ER5025S-754J <sup>^</sup>	M39010/18A752J <sup>^</sup>	7500	40	0.25	1.2	119.0	32	5	12
ER5025S-824* <sup>^</sup>	M39010/18A822* <sup>^</sup>	8200	40	0.25	1.2	119.0	32	5, 10	12
ER5025S-914J <sup>^</sup>	M39010/18A912J <sup>^</sup>	9100	40	0.25	1.0	139.0	30	5	11
ER5025S-105* <sup>^</sup>	M39010/18A103* <sup>^</sup>	10000	40	0.25	1.0	139.0	30	5, 10	11

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- Current Rating @ a 90°C Ambient 15°C Rise
- Temperature Class: Class A (105°C)
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