

ER5025S-683KM Datasheet



DiGi Electronics Part Number	ER5025S-683KM-DG
Manufacturer	Gowanda Electronics
Manufacturer Product Number	ER5025S-683KM
Description	INDUCTOR RF SMD
Detailed Description	680 μ H Shielded Molded Inductor 105 mA 11.80hm Max Nonstandard

<https://www.DiGi-Electronics.com>



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Purchase and inquiry

Manufacturer Product Number:

ER5025S-683KM

Series:

ER5025S

Type:

Molded

Inductance:

680 μ H

Current Rating (Amps):

105 mA

Shielding:

Shielded

Q @ Freq:

60 @ 790kHz

Ratings:

-

Inductance Frequency - Test:

790 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.230" (5.84mm)

Manufacturer:

Gowanda Electronics

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 10%

Current - Saturation (Isat):

-

DC Resistance (DCR):

11.80hm Max

Frequency - Self Resonant:

4.5MHz

Operating Temperature:

-55°C ~ 105°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.505" L x 0.240" W (12.82mm x 6.09mm)

Environmental & Export classification

RoHS Status:

Not applicable

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

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

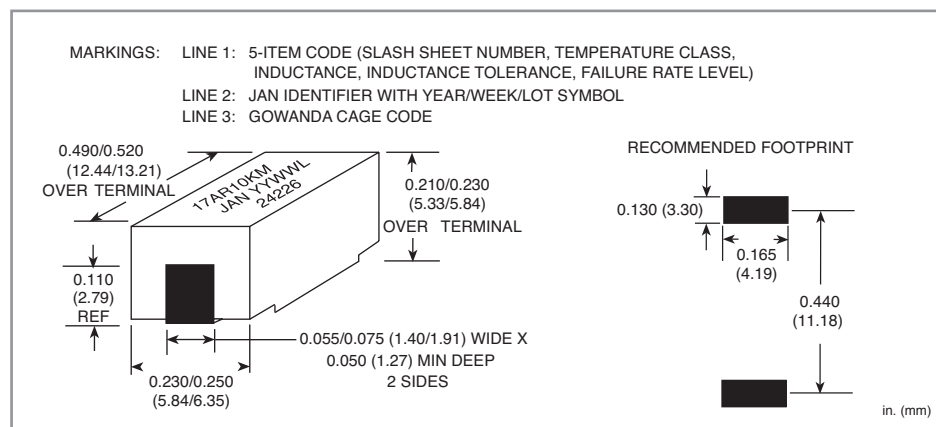


PART NUMBER	MIL PART NUMBER	L μH	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
MIL-PRF-39010/17 PHENOLIC CORE & IRON SLEEVE								
ER5025S-100* [^]	M39010/17AR10* [^]	0.10	45	25	450	0.025	2245	5, 10
ER5025S-110J [^]	M39010/17AR11J [^]	0.11	45	25	425	0.034	1925	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

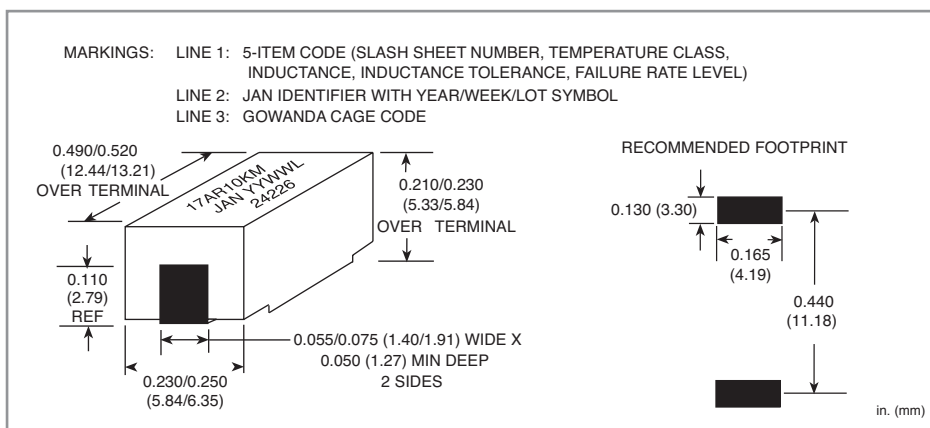

Established Reliability
Wirewound, Shielded, Molded, Level M Qualified, MIL-PRF-39010
M39010/17 Phenolic Core & Iron Sleeve /I7 Powdered Iron Core & Iron Sleeve
/I8 Ferrite Core & Ferrite Sleeve


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 [^]	M39010/17AR91J [^]	0.91	40	25	119	0.070	1340	5
ER5025S-101* [^]	M39010/17A1R0* [^]	1.0	40	25	119	0.070	1340	5, 10
ER5025S-111J [^]	M39010/17A1R1J [^]	1.1	40	7.9	111	0.100	1120	5
ER5025S-121* [^]	M39010/17A1R2* [^]	1.2	40	7.9	111	0.100	1120	5, 10
ER5025S-131J [^]	M39010/17A1R3J [^]	1.3	40	7.9	98	0.120	1025	5
ER5025S-151* [^]	M39010/17A1R5* [^]	1.5	40	7.9	98	0.120	1025	5, 10
ER5025S-161J [^]	M39010/17A1R6J [^]	1.6	40	7.9	89	0.140	950	5
ER5025S-181* [^]	M39010/17A1R8* [^]	1.8	40	7.9	89	0.140	950	5, 10
ER5025S-201J [^]	M39010/17A2R0J [^]	2.0	40	7.9	85	0.190	815	5
ER5025S-221* [^]	M39010/17A2R2* [^]	2.2	40	7.9	85	0.190	815	5, 10
ER5025S-241J [^]	M39010/17A2R4J [^]	2.4	40	7.9	78	0.280	670	5
ER5025S-271* [^]	M39010/17A2R7* [^]	2.7	40	7.9	78	0.280	670	5, 10
ER5025S-301J [^]	M39010/17A3R0J [^]	3.0	40	7.9	72	0.350	600	5
ER5025S-331* [^]	M39010/17A3R3* [^]	3.3	40	7.9	72	0.350	600	5, 10
ER5025S-361J [^]	M39010/17A3R6J [^]	3.6	40	7.9	64	0.400	560	5
ER5025S-391* [^]	M39010/17A3R9* [^]	3.9	40	7.9	64	0.400	560	5, 10
ER5025S-431J [^]	M39010/17A4R3J [^]	4.3	40	7.9	60	0.550	480	5
ER5025S-471* [^]	M39010/17A4R7* [^]	4.7	40	7.9	60	0.550	480	5, 10
ER5025S-511J [^]	M39010/17A5R1J [^]	5.1	40	7.9	55	0.720	420	5
ER5025S-561* [^]	M39010/17A5R6* [^]	5.6	40	7.9	55	0.720	420	5, 10
ER5025S-621J [^]	M39010/17A6R2J [^]	6.2	40	7.9	47	1.02	350	5
ER5025S-681* [^]	M39010/17A6R8* [^]	6.8	40	7.9	47	1.02	350	5, 10
ER5025S-751J [^]	M39010/17A7R5J [^]	7.5	40	7.9	43	1.32	310	5
ER5025S-821* [^]	M39010/17A8R2* [^]	8.2	40	7.9	43	1.32	310	5, 10
ER5025S-911J [^]	M39010/17A9R1J [^]	9.1	40	7.9	39	1.62	280	5
ER5025S-102* [^]	M39010/17A100* [^]	10	40	7.9	39	1.62	280	5, 10
ER5025S-112J [^]	M39010/17A110J [^]	11	40	2.5	37	2.00	250	5
ER5025S-122* [^]	M39010/17A120* [^]	12	40	2.5	37	2.00	250	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 /17 Powdered Iron Core & Iron Sleeve
 /18 Ferrite Core & Ferrite Sleeve

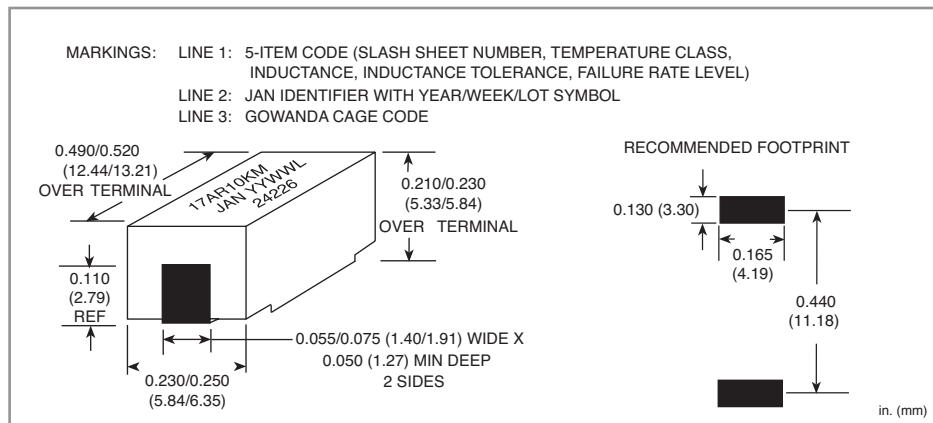


PART NUMBER	MIL PART NUMBER	L μH	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE	INC I mA DC
MIL-PRF-39010/18 FERRITE CORE & FERRITE SLEEVE									
ER5025S-152* ^A	M39010/18A150* ^A	15	40	2.5	42	0.80	395	5, 10	300
ER5025S-162J ^A	M39010/18A160J ^A	16	40	2.5	38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

* 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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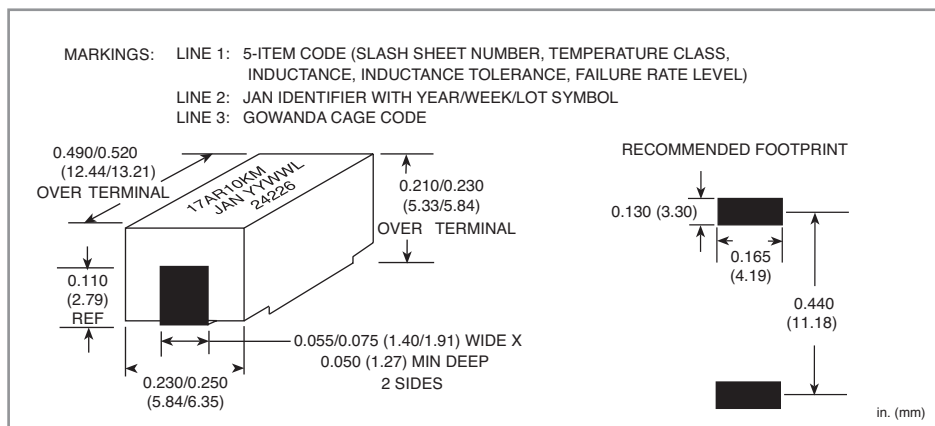
ER5025S


Established Reliability
Wirewound, Shielded, Molded, Level M Qualified, MIL-PRF-39010
M39010/17 Phenolic Core & Iron Sleeve /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 [^]	M39010/18A112J [^]	1100	45	0.25	3.0	22.1	75	5	28
ER5025S-124* [^]	M39010/18A122* [^]	1200	45	0.25	3.0	22.1	75	5, 10	28
ER5025S-134J [^]	M39010/18A132J [^]	1300	45	0.25	2.8	26.5	70	5	27
ER5025S-154* [^]	M39010/18A152* [^]	1500	45	0.25	2.8	26.5	70	5, 10	27
ER5025S-164J [^]	M39010/18A162J [^]	1600	45	0.25	2.6	29.9	65	5	24
ER5025S-184* [^]	M39010/18A182* [^]	1800	45	0.25	2.6	29.9	65	5, 10	24
ER5025S-204J [^]	M39010/18A202J [^]	2000	45	0.25	2.4	33.8	60	5	22
ER5025S-224* [^]	M39010/18A222* [^]	2200	45	0.25	2.4	33.8	60	5, 10	22
ER5025S-244J [^]	M39010/18A242J [^]	2400	45	0.25	2.2	47.3	50	5	20
ER5025S-274* [^]	M39010/18A272* [^]	2700	45	0.25	2.2	47.3	50	5, 10	20
ER5025S-304J [^]	M39010/18A302J [^]	3000	45	0.25	2.0	53.0	45	5	19
ER5025S-334* [^]	M39010/18A332* [^]	3300	45	0.25	2.0	53.0	45	5, 10	19
ER5025S-364J [^]	M39010/18A362J [^]	3600	45	0.25	1.9	73.8	40	5	17
ER5025S-394* [^]	M39010/18A392* [^]	3900	45	0.25	1.9	73.8	40	5, 10	17
ER5025S-434J [^]	M39010/18A432J [^]	4300	45	0.25	1.7	81.6	38	5	15
ER5025S-474* [^]	M39010/18A472* [^]	4700	45	0.25	1.7	81.6	38	5, 10	15
ER5025S-514J [^]	M39010/18A512J [^]	5100	44	0.25	1.6	98.9	36	5	14
ER5025S-564* [^]	M39010/18A562* [^]	5600	44	0.25	1.6	98.9	36	5, 10	14
ER5025S-624J [^]	M39010/18A622J [^]	6200	40	0.25	1.4	111.0	34	5	13
ER5025S-684* [^]	M39010/18A682* [^]	6800	40	0.25	1.4	111.0	34	5, 10	13
ER5025S-754J [^]	M39010/18A752J [^]	7500	40	0.25	1.2	119.0	32	5	12
ER5025S-824* [^]	M39010/18A822* [^]	8200	40	0.25	1.2	119.0	32	5, 10	12
ER5025S-914J [^]	M39010/18A912J [^]	9100	40	0.25	1.0	139.0	30	5	11
ER5025S-105* [^]	M39010/18A103* [^]	10000	40	0.25	1.0	139.0	30	5, 10	11

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

^ Substitute M for failure rate level



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.

OUR CERTIFICATE

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