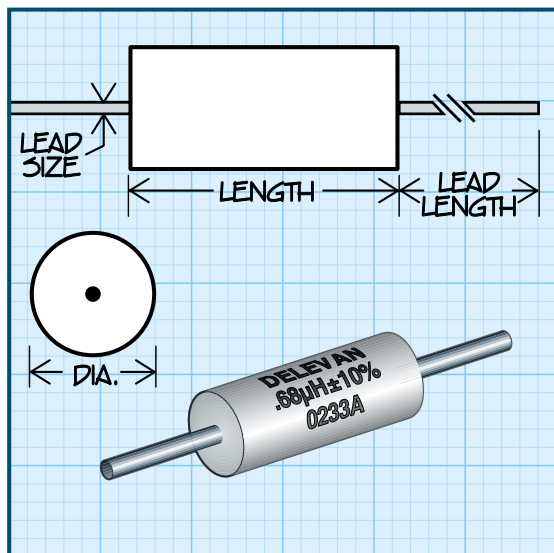


Series

1025R, 1026R
1025 QPL 1026RoHS
CompliantTraditional
First Quality

Molded Unshielded RF Coils



Military Specifications (1025 Series Only)

MS75083 (LT4K); MS75084 (LT10K); MS75085 (LT10K)

Physical Parameters

	Inches	Millimeters
Length	0.250 ± 0.010	6.35 ± 0.25
Diameter	0.095 ± 0.010	2.41 ± 0.25
Lead Size		
AWG #24 TCW	0.020 ± 0.0015	0.508 ± 0.038
Lead Length	1.5 ± 0.12	38.1 ± 3.05

Current Rating at 90°C Ambient

LT4K 35°C Rise

LT10K 15°C Rise

Operating Temperature Range

LT4K -55°C to +125°C

LT10K -55°C to +105°C

Maximum Power Dissipation at 90°C

Phenolic: LT4K 0.21 W

Iron: LT10K 0.09 W

Ferrite: LT10K 0.073 W

Weight Max. (Grams) 0.3

• For in-between values see Series 1782 (page 41)

Note (1026 Series only) Self Resonant Frequency (SRF) values are calculated and for reference only.

Packaging Tape & reel: 12" reel, 3500 pieces max.; 14" reel, 6000 pieces max. For additional packaging options, see technical section.

*Complete part # must include series # PLUS the dash #

For further surface finish information, refer to TECHNICAL section of this catalog.

Made in the U.S.A.

DASH NUMBER*

MIL DASH #

INDUCTANCE (µH)

TOLERANCE

Q MINIMUM

TEST FREQUENCY (MHz)

SRF MINIMUM (MHz)

DC RESISTANCE MAXIMUM (OHMS)

CURRENT RATING MAXIMUM (mA)

MS75083- SERIES 1025 PHENOLIC CORE (LT4K)								
-94K	1	0.10	±10%	40	25.0	680.0	0.08	1380
-96K	2	0.12	±10%	40	25.0	640.0	0.09	1300
-00K	3	0.15	±10%	38	25.0	600.0	0.10	1230
-02K	4	0.18	±10%	35	25.0	550.0	0.12	1120
-04K	5	0.22	±10%	33	25.0	510.0	0.14	1040
-06K	6	0.27	±10%	33	25.0	430.0	0.16	975
-08K	7	0.33	±10%	30	25.0	410.0	0.22	830
-10K	8	0.39	±10%	30	25.0	365.0	0.30	710
-12K	9	0.47	±10%	30	25.0	330.0	0.35	660
-14K	10	0.56	±10%	30	25.0	300.0	0.50	550
-16K	11	0.68	±10%	28	25.0	275.0	0.60	500
-18K	12	0.82	±10%	28	25.0	250.0	0.85	420
-20K	13	1.0	±10%	25	25.0	230.0	1.00	390

MS75084- SERIES 1025 IRON CORE (LT10K)								
-22K	1	1.2	±10%	25	7.9	150.0	0.18	620
-24K	2	1.5	±10%	28	7.9	140.0	0.22	560
-26K	3	1.8	±10%	30	7.9	125.0	0.30	480
-28K	4	2.2	±10%	30	7.9	115.0	0.40	415
-30K	5	2.7	±10%	37	7.9	100.0	0.55	355
-32K	6	3.3	±10%	45	7.9	90.0	0.85	285
-34K	7	3.9	±10%	45	7.9	80.0	1.00	263
-36K	8	4.7	±10%	45	7.9	75.0	1.20	239
-38K	9	5.6	±10%	50	7.9	65.0	1.80	195
-40K	10	6.8	±10%	50	7.9	60.0	2.00	185
-42K	11	8.2	±10%	55	7.9	55.0	2.70	160
-44K	12	10.0	±10%	55	7.9	50.0	3.30	144
-46K	13	12.0	±10%	45	2.5	40.0	2.70	160
-48K	14	15.0	±10%	45	2.5	35.0	2.80	157
-50K	15	18.0	±10%	50	2.5	30.0	3.10	149
-52K	16	22.0	±10%	50	2.5	25.0	3.30	144
-54K	17	27.0	±10%	50	2.5	20.0	3.50	140

MS75085- SERIES 1025 FERRITE CORE (LT10K)								
-56K	1	33.0	±10%	45	2.5	24.0	3.40	130
-58K	2	39.0	±10%	45	2.5	22.0	3.60	125
-60K	3	47.0	±10%	45	2.5	20.0	4.50	110
-62K	4	56.0	±10%	45	2.5	18.0	5.70	100
-64K	5	68.0	±10%	50	2.5	15.0	6.70	92
-66K	6	82.0	±10%	50	2.5	14.0	7.30	88
-68K	7	100.0	±10%	50	2.5	13.0	8.00	84
-70K	8	120.0	±10%	30	0.79	12.0	13.00	66
-72K	9	150.0	±10%	30	0.79	11.0	15.00	61
-74K	10	180.0	±10%	30	0.79	10.0	17.00	57
-76K	11	220.0	±10%	30	0.79	9.0	21.00	52
-78K	12	270.0	±10%	30	0.79	8.0	25.00	47
-80K	13	330.0	±10%	30	0.79	7.0	28.00	45
-82K	14	390.0	±10%	30	0.79	6.5	35.00	40
-84K	15	470.0	±10%	30	0.79	6.0	42.00	36
-86K	16	560.0	±10%	30	0.79	5.0	46.00	35
-88K	17	680.0	±10%	30	0.79	4.2	60.00	30
-90K	18	820.0	±10%	30	0.79	3.8	65.00	29
-92K	19	1000.0	±10%	30	0.79	3.4	72.00	28

Parts listed above are QPL/MIL qualified

SERIES 1026 PHENOLIC CORE (LT4K)								
-00M		0.022	±20%	50	50.0	900.0	0.010	3800
-02K		0.027	±10%	40	25.0	875.0	0.030	2200
-04K		0.033	±10%	40	25.0	850.0	0.035	2000
-06K		0.039	±10%	40	25.0	825.0	0.040	1900
-08K		0.047	±10%	40	25.0	800.0	0.045	1800
-10K		0.056	±10%	40	25.0	775.0	0.050	1700
-12K		0.068	±10%	40	25.0	750.0	0.060	1500
-14K		0.082	±10%	40	25.0	725.0	0.070	1400

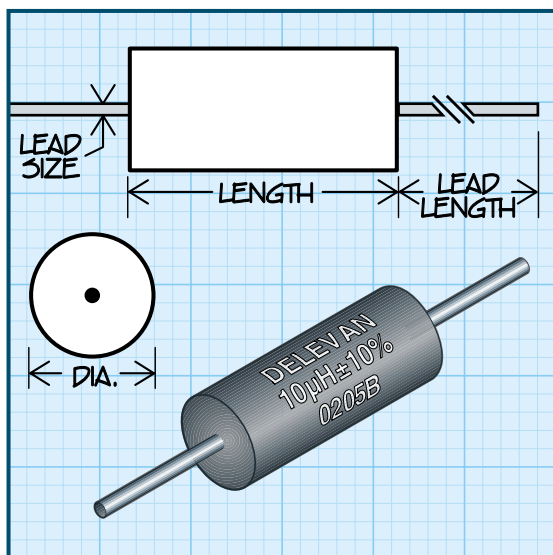
Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

Series 1641R 1641

RoHS
Compliant

MILITARY
QPL
APPROVED

Molded Shielded RF Coils



Military Specifications

MS75087 (LT10K); MS75088 (LT10K);
MS75089 (15µH to 1000µH only) (LT10K)

Physical Parameters

	Inches	Millimeters
Length	0.410 ± 0.020	10.41 ± 0.51
Diameter	0.162 ± 0.010	4.11 ± 0.25
Lead Size		
AWG #22 TCW	0.025 ± 0.002	0.635 ± 0.05
Lead Length	1.44 ± 0.12	36.58 ± 3.05

Current Rating at 90°C Ambient 15°C Rise

Operating Temperature Range -55°C to +105°C

Maximum Power Dissipation at 90°C 0.11 W

Weight Max. (Grams) 1.0

Incremental Current Current level which causes a Max. of 5% change in inductance.

Coupling 3% Max.

Packaging Tape & reel: 12" reel, 2500 pieces max.;
14" reel, 4000 pieces max. For additional packaging
options, see technical section.

Made in the U.S.A.

DASH NUMBER*

MIL DASH #

INDUCTANCE
(µH) ±10%

Q MINIMUM

TEST FREQUENCY (MHz)

SRF MINIMUM (MHz)

DC RESISTANCE
MAXIMUM (OHMS)CURRENT RATING
MAXIMUM (mA)INCREMENTAL
CURRENT (mA)

MS75087- SERIES 1641 PHENOLIC CORE/IRON SLEEVE (LT10K)

-101K	1	0.10	50	25.0	250.0	0.025	1830	1830
-121K	2	0.12	51	25.0	250.0	0.034	1570	1570
-151K	3	0.15	51	25.0	250.0	0.037	1500	1500
-181K	4	0.18	50	25.0	250.0	0.047	1330	1330
-221K	5	0.22	49	25.0	250.0	0.067	1120	1120
-271K	6	0.27	47	25.0	250.0	0.11	870	870
-331K	7	0.33	46	25.0	250.0	0.13	800	800
-391K	8	0.39	44	25.0	250.0	0.18	680	680
-471K	9	0.47	44	25.0	235.0	0.25	580	580
-561K	10	0.56	43	25.0	210.0	0.33	505	505
-681K	11	0.68	42	25.0	190.0	0.45	430	430
-821K	12	0.82	40	25.0	180.0	0.59	375	375

MS75088- SERIES 1641 IRON CORE & SLEEVE (LT10K)

-102K	1	1.0	44	25.0	140.0	0.07	1090	1090
-122K	2	1.2	44	7.9	130.0	0.10	900	900
-152K	3	1.5	44	7.9	115.0	0.12	835	835
-182K	4	1.8	44	7.9	105.0	0.14	775	775
-222K	5	2.2	44	7.9	100.0	0.19	665	665
-272K	6	2.7	44	7.9	92.0	0.28	545	545
-332K	7	3.3	44	7.9	85.0	0.35	490	490
-392K	8	3.9	44	7.9	75.0	0.40	455	455
-472K	9	4.7	44	7.9	70.0	0.55	390	390
-562K	10	5.6	44	7.9	65.0	0.72	340	340
-682K	11	6.8	50	7.9	55.0	1.02	285	285
-822K	12	8.2	50	7.9	50.0	1.32	250	250
-103K	13	10.0	50	7.9	46.0	1.62	228	228
-123K	14	12.0	55	2.5	44.0	2.00	205	205

MS75089- SERIES 1641 FERRITE CORE & SLEEVE (LT10K)

-153K	1	15.0	45	2.5	49.0	0.80	325	250
-183K	2	18.0	45	2.5	45.0	0.89	305	235
-223K	3	22.0	45	2.5	41.0	0.96	295	220
-273K	4	27.0	45	2.5	38.0	1.19	265	200
-333K	5	33.0	45	2.5	34.0	1.37	248	190
-393K	6	39.0	50	2.5	29.0	1.93	209	180
-473K	7	47.0	50	2.5	27.0	2.11	200	175
-563K	8	56.0	50	2.5	25.0	2.23	194	160
-683K	9	68.0	50	2.5	21.0	2.70	176	150
-823K	10	82.0	50	2.5	10.5	2.44	186	140
-104K	11	100.0	50	2.5	10.0	3.12	164	120
-124K	12	120.0	55	0.79	9.7	3.60	153	95
-154K	13	150.0	55	0.79	8.5	4.10	143	90
-184K	14	180.0	55	0.79	8.0	4.40	138	85
-224K	15	220.0	55	0.79	7.5	5.00	130	80
-274K	16	270.0	55	0.79	7.0	5.80	120	70
-334K	17	330.0	55	0.79	6.5	6.40	115	65
-394K	18	390.0	60	0.79	6.2	7.40	107	60
-474K	19	470.0	60	0.79	5.7	9.50	94	58
-564K	20	560.0	60	0.79	4.7	10.5	90	55
-684K	21	680.0	60	0.79	4.5	11.8	84	50
-824K	22	820.0	60	0.79	4.2	13.0	80	45
-105K	23	1000.0	60	0.79	3.8	17.5	70	40

See 4307 Series (page 53) for values above 1000µH.

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3%

*Complete part # must include series # PLUS the dash #

For further surface finish information,
refer to TECHNICAL section of this catalog.