



-  Suitable for DC/DC conversions in notebook computers, or as a choke coil for noise filtering.
-  High performance and small size for printed circuit mounting
-  Compact design with high energy storage and low resistance
-  Inductance range from 1 to 1000 micro H
-  RoHS compliant versions are available



ELECTRICAL SPECIFICATION @ 25°C

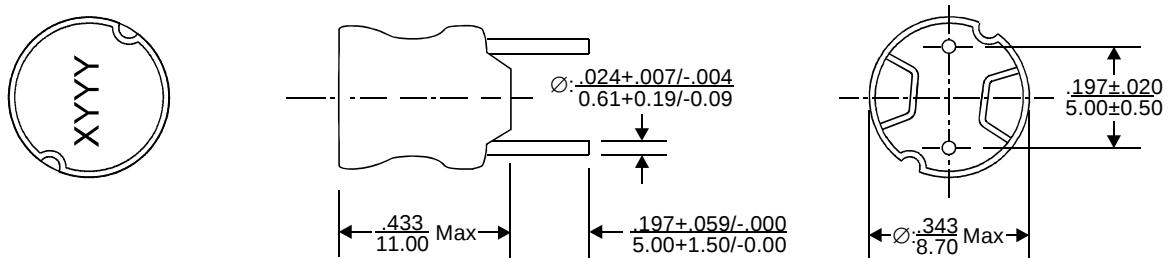
Part Number	RoHS Part Number	Inductance L (uH)	Inductance Tolerance (%)	Test ¹ Frequency of L, Q (MHz)	Q Min.	DCR (Ω) Max	Rated DC Current, Isat (A) Max	Rated DC Current, Irms (A) Max	SRF (MHz) Typ.	Marking (YYYY)
UIT622ZM-1R0	UIT622ZM-1R0F	1.0	20	1	20	0.013	10.0	3.71	150	M1R0
UIT622ZM-1R5	UIT622ZM-1R5F	1.5	20	1	20	0.016	8.50	3.32	130	M1R5
UIT622ZM-2R2	UIT622ZM-2R2F	2.2	20	1	20	0.021	6.50	3.15	100	M2R2
UIT622ZM-3R3	UIT622ZM-3R3F	3.3	20	1	20	0.025	5.50	2.66	79	M3R3
UIT622ZM-4R7	UIT622ZM-4R7F	4.7	20	1	20	0.030	4.30	2.27	51	M4R7
UIT622ZM-6R8	UIT622ZM-6R8F	6.8	20	1	20	0.035	3.70	2.10	29	M6R8
UIT622ZK-100	UIT622ZK-100F	10	10	1	50	0.045	3.00	1.96	14	K100
UIT622ZK-120	UIT622ZK-120F	12	10	1	50	0.050	2.60	1.82	13	K120
UIT622ZK-150	UIT622ZK-150F	15	10	1	50	0.056	2.30	1.75	12	K150
UIT622ZK-180	UIT622ZK-180F	18	10	1	40	0.061	2.20	1.54	11	K180
UIT622ZK-220	UIT622ZK-220F	22	10	1	40	0.070	2.00	1.29	9.2	K220
UIT622ZK-270	UIT622ZK-270F	27	10	1	40	0.080	1.70	1.22	8.5	K270
UIT622ZK-330	UIT622ZK-330F	33	10	1	30	0.090	1.60	1.17	7.8	K330
UIT622ZK-390	UIT622ZK-390F	39	10	1	30	0.10	1.50	1.14	6.9	K390
UIT622ZK-470	UIT622ZK-470F	47	10	1	30	0.16	1.40	0.79	6.5	K470
UIT622ZK-560	UIT622ZK-560F	56	10	1	30	0.18	1.30	0.76	5.4	K560
UIT622ZK-680	UIT622ZK-680F	68	10	1	30	0.21	1.20	0.70	4.9	K680
UIT622ZK-820	UIT622ZK-820F	82	10	1	30	0.23	1.10	0.67	4.1	K820
UIT622ZK-101	UIT622ZK-101F	100	10	0.796	20	0.28	0.91	0.58	3.7	K101
UIT622ZK-121	UIT622ZK-121F	120	10	0.796	20	0.32	0.84	0.56	3.4	K121
UIT622ZK-151	UIT622ZK-151F	150	10	0.796	20	0.37	0.75	0.42	3.2	K151
UIT622ZK-181	UIT622ZK-181F	180	10	0.796	20	0.58	0.69	0.40	2.8	K181
UIT622ZK-221	UIT622ZK-221F	220	10	0.796	20	0.65	0.64	0.38	2.7	K221
UIT622ZK-271	UIT622ZK-271F	270	10	0.796	20	0.75	0.57	0.35	2.4	K271
UIT622ZK-331	UIT622ZK-331F	330	10	0.796	20	0.85	0.54	0.33	2.3	K331
UIT622ZK-391	UIT622ZK-391F	390	10	0.796	20	1.00	0.48	0.28	2.1	K391
UIT622ZK-471	UIT622ZK-471F	470	10	0.796	20	1.10	0.46	0.25	1.9	K471
UIT622ZK-561	UIT622ZK-561F	560	10	0.796	20	1.40	0.41	0.23	1.8	K561
UIT622ZK-681	UIT622ZK-681F	680	10	0.796	20	1.60	0.38	0.21	1.6	K681
UIT622ZK-821	UIT622ZK-821F	820	10	0.796	20	1.80	0.35	0.18	1.5	K821
UIT622ZK-102	UIT622ZK-102F	1000	10	0.252	50	2.90	0.29	0.16	1.3	K102



Notes:

1. Test frequency is specified as the frequency for measuring the inductance and Q value.
2. Operating temperature range: -25°C to +85°C.
3. Contact EEMPL for RoHS compliant version availability.
4. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

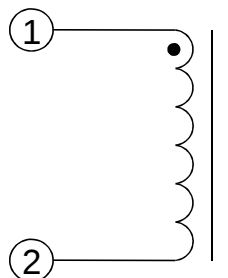
MECHANICAL DIMENSIONS



Notes:

5. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
6. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.
7. For available RoHS part number, the part will be marked with "XXXXF", instead of "XXXX".

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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