



-  Suitable for notebook computers and other portable handheld devices
-  Unshielded and small in size with high energy storage
-  High performance and self-leaded design for surface mounting applications
-  Inductance range from 10 to 820 micro H
-  RoHS compliant versions are available



ELECTRICAL SPECIFICATION @ 25°C

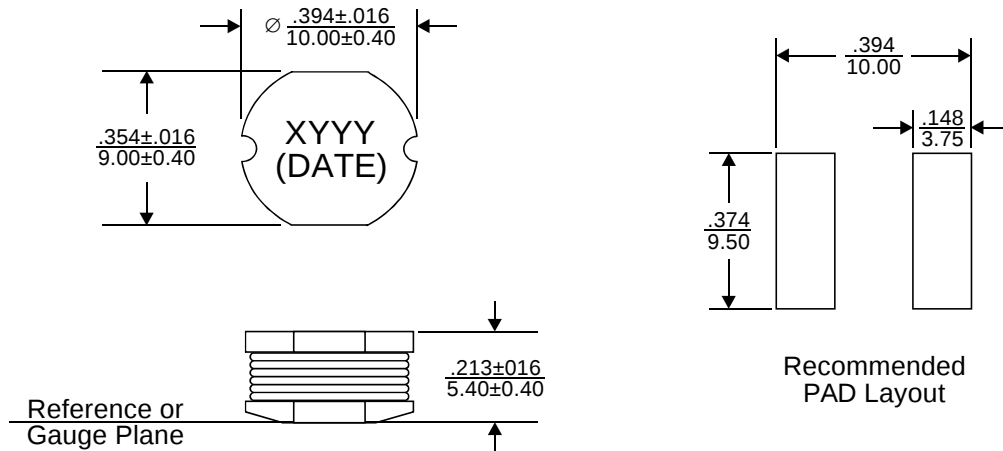
Part Number	RoHS Part Number	Inductance ¹ L (uH)	Inductance Tolerance (%)	DCR (Ω) Max	Rated DC Current ² (A)	Marking (XXXX)
UISCD105M-100	UISCD105M-100F	10	20	0.06	2.60	M100
UISCD105M-120	UISCD105M-120F	12	20	0.07	2.45	M120
UISCD105M-150	UISCD105M-150F	15	20	0.08	2.27	M150
UISCD105M-180	UISCD105M-180F	18	20	0.09	2.15	M180
UISCD105M-220	UISCD105M-220F	22	20	0.10	1.95	M220
UISCD105M-270	UISCD105M-270F	27	20	0.11	1.76	M270
UISCD105M-330	UISCD105M-330F	33	20	0.12	1.50	M330
UISCD105M-390	UISCD105M-390F	39	20	0.14	1.37	M390
UISCD105K-470	UISCD105K-470F	47	10	0.17	1.28	K470
UISCD105K-560	UISCD105K-560F	56	10	0.19	1.17	K560
UISCD105K-680	UISCD105K-680F	68	10	0.22	1.11	K680
UISCD105K-820	UISCD105K-820F	82	10	0.25	1.00	K820
UISCD105K-101	UISCD105K-101F	100	10	0.35	0.97	K101
UISCD105K-121	UISCD105K-121F	120	10	0.40	0.89	K121
UISCD105K-151	UISCD105K-151F	150	10	0.47	0.78	K151
UISCD105K-181	UISCD105K-181F	180	10	0.63	0.72	K181
UISCD105K-221	UISCD105K-221F	220	10	0.73	0.66	K221
UISCD105K-271	UISCD105K-271F	270	10	0.97	0.57	K271
UISCD105K-331	UISCD105K-331F	330	10	1.15	0.52	K331
UISCD105K-391	UISCD105K-391F	390	10	1.30	0.48	K391
UISCD105K-471	UISCD105K-471F	470	10	1.48	0.42	K471
UISCD105K-561	UISCD105K-561F	560	10	1.90	0.33	K561
UISCD105K-681	UISCD105K-681F	680	10	2.25	0.28	K681
UISCD105K-821	UISCD105K-821F	820	10	2.55	0.24	K821

Notes:

- Inductance is tested at 1kHz, 0.1Vrms.
- Rated D.C. current indicates the current when the inductance is 10% lower than its initial value at D.C. superposition, or the current when at $\Delta T=40^{\circ}\text{C}$, whichever is lower.
- Operating temperature range: -30°C to $+100^{\circ}\text{C}$.
- Contact EEMPL for RoHS compliant version availability.
- 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

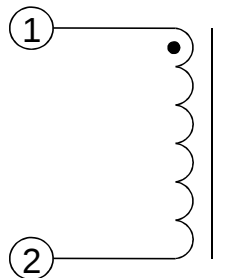


Notes:

6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
7. Unless otherwise specified, all tolerances are $\pm .010$ / $\pm .025$.
8. For available RoHS part number, the part will be marked with "YYYYF", instead of "YYYY".

Weight (in gram)	: 1.7 typ.
Tape & Reel	: 600 / reel

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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