



-  Suitable for notebook computers and other portable handheld devices
-  Unshielded and small in size with low resistance
-  High performance and self-leaded design for surface mounting applications
-  Inductance range from 10 to 560 micro H
-  RoHS compliant versions are available



ELECTRICAL SPECIFICATION @ 25°C

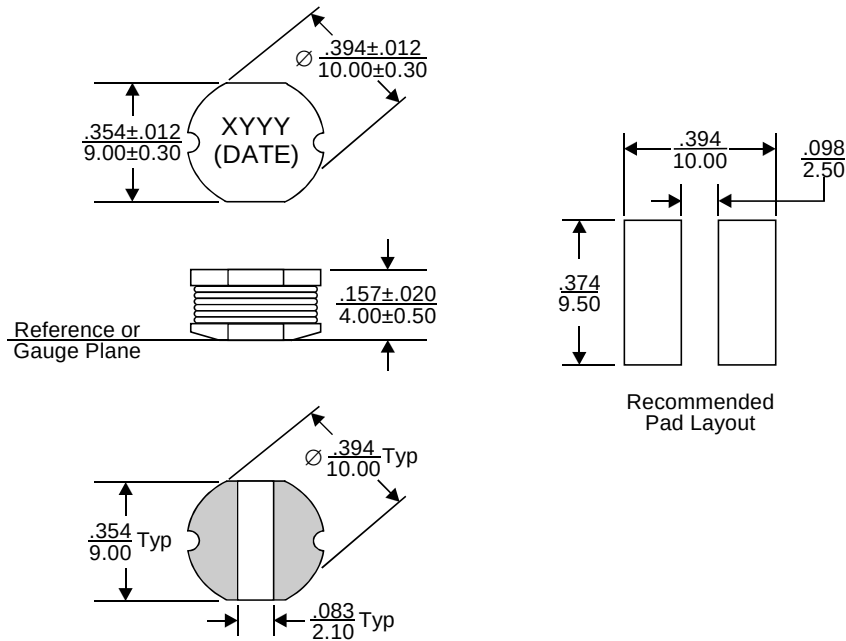
Part Number	RoHS Part Number	Inductance L (uH)	Inductance Tolerance (%)	Test ¹ Frequency (Hz)	DCR (mΩ) Max	Rated DC ² Current (A)	SRF (MHz) Typ.	Marking (XXXX)
UISCD104M-100	UISCD104M-100F	10	20	1M	53	2.38	29.9	M100
UISCD104M-120	UISCD104M-120F	12	20	1M	61	2.13	29.7	M120
UISCD104M-150	UISCD104M-150F	15	20	1M	70	1.87	25.1	M150
UISCD104M-180	UISCD104M-180F	18	20	1M	81	1.73	23.0	M180
UISCD104M-220	UISCD104M-220F	22	20	1M	88	1.60	20.0	M220
UISCD104M-270	UISCD104M-270F	27	20	1M	100	1.44	18.5	M270
UISCD104M-330	UISCD104M-330F	33	20	1M	120	1.26	16.9	M330
UISCD104M-390	UISCD104M-390F	39	20	1M	151	1.20	14.9	M390
UISCD104M-470	UISCD104M-470F	47	20	1M	170	1.10	13.8	M470
UISCD104K-560	UISCD104K-560F	56	10	1M	199	1.01	12.6	K560
UISCD104K-680	UISCD104K-680F	68	10	1M	223	0.91	10.4	K680
UISCD104K-820	UISCD104K-820F	82	10	1M	252	0.85	10.0	K820
UISCD104K-101	UISCD104K-101F	100	10	1k	344	0.74	9.42	K101
UISCD104K-121	UISCD104K-121F	120	10	1k	396	0.69	8.74	K121
UISCD104K-151	UISCD104K-151F	150	10	1k	544	0.61	7.29	K151
UISCD104K-181	UISCD104K-181F	180	10	1k	621	0.56	6.53	K181
UISCD104K-221	UISCD104K-221F	220	10	1k	721	0.53	5.85	K221
UISCD104K-271	UISCD104K-271F	270	10	1k	949	0.45	5.51	K271
UISCD104K-331	UISCD104K-331F	330	10	1k	1100	0.42	4.91	K331
UISCD104K-391	UISCD104K-391F	390	10	1k	1245	0.38	4.32	K391
UISCD104K-471	UISCD104K-471F	470	10	1k	1526	0.35	4.06	K471
UISCD104K-561	UISCD104K-561F	560	10	1k	1904	0.32	3.55	K561

Notes:

- Test frequency is specified as testing the inductance.
- 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

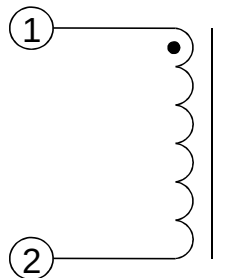


Notes:

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

Weight (in gram)	: 1.5 typ.
Tape & Reel	: 1000 / reel

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER
2/F Block A, Merit Industrial Centre,
94 Tokwawan Road, Kowloon,
Hong Kong
Tel: (852) 2765 3888
Fax: (852) 2954 3304
Email: eempl@eleceltek.com
Website: <http://www.eleceltek.com>

Information herein is for reference only and subject to change without notice. It does not constitute any representation, warranty or commitment of the company in respect of the products in any aspect. All logos, brands and product names mentioned herein are trademarks or registered trademarks of their respective owners. The company does not assume any liability arising out of the application or use of any product or circuit described herein. Copyrights 2006, E & E Magnetic Products Limited.