



-  Suitable for notebook computers and other portable handheld devices
-  Unshielded and small in size with high energy storage and low resistance
-  High performance and self-leaded design for surface mounting applications
-  Inductance range from 1 to 68 micro H
-  RoHS compliant versions are available



ELECTRICAL SPECIFICATION @ 25°C

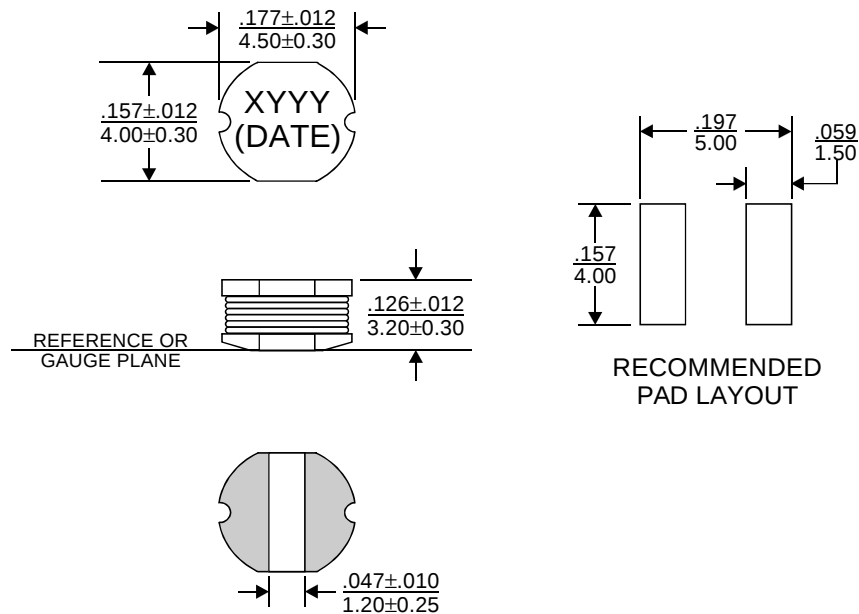
Part Number	RoHS Part Number	Inductance ¹ L (uH)	Inductance Tolerance (%)	DCR (mΩ) Max	Rated DC ² Current (A)	Marking (YYYY)
UISCD43M-1R0	UISCD43M-1R0F	1.0	20	48.7	2.56	M1R0
UISCD43M-1R4	UISCD43M-1R4F	1.4	20	56.2	2.52	M1R4
UISCD43M-1R8	UISCD43M-1R8F	1.8	20	63.7	1.95	M1R8
UISCD43M-2R2	UISCD43M-2R2F	2.2	20	71.2	1.75	M2R2
UISCD43M-2R7	UISCD43M-2R7F	2.7	20	78.7	1.58	M2R7
UISCD43M-3R3	UISCD43M-3R3F	3.3	20	86.2	1.44	M3R3
UISCD43M-3R9	UISCD43M-3R9F	3.9	20	93.7	1.33	M3R9
UISCD43M-4R7	UISCD43M-4R7F	4.7	20	109	1.15	M4R7
UISCD43M-5R6	UISCD43M-5R6F	5.6	20	126	0.99	M5R6
UISCD43M-6R8	UISCD43M-6R8F	6.8	20	132	0.95	M6R8
UISCD43M-8R2	UISCD43M-8R2F	8.2	20	146	0.84	M8R2
UISCD43M-100	UISCD43M-100F	10	20	182	1.04	M100
UISCD43M-120	UISCD43M-120F	12	20	210	0.97	M120
UISCD43M-150	UISCD43M-150F	15	20	235	0.85	M150
UISCD43M-180	UISCD43M-180F	18	20	338	0.74	M180
UISCD43M-220	UISCD43M-220F	22	20	378	0.68	M220
UISCD43M-270	UISCD43M-270F	27	20	522	0.62	M270
UISCD43K-330	UISCD43K-330F	33	10	540	0.56	K330
UISCD43K-390	UISCD43K-390F	39	10	587	0.52	K390
UISCD43K-470	UISCD43K-470F	47	10	844	0.44	K470
UISCD43K-560	UISCD43K-560F	56	10	937	0.42	K560
UISCD43K-680	UISCD43K-680F	68	10	1117	0.37	K680

Notes:

- Inductance is tested at 1MHz.
- 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:

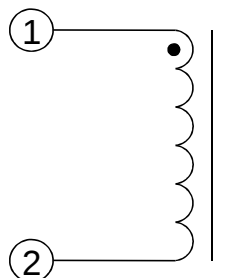
6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.

7. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

8. For available RoHS part number, the part will be marked with "XXXXF", instead of "XXXX".

Weight (in gram)	: 0.2 typ.
Tape & Reel	: 2000 / reel

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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