Elec & Eltek依利安達
E & E Magnetic Products Limited

SMT POWER INDUCTORS

Drum Type, UISHM612X Series, Self-Leaded

- Operating frequency up to 3MHz.
- Inductance range from 1 to 2700 micro H
- High performance and small size with low profile
- Suitable for DC/DC conversions in portable computers, VCR or other communication equipments.
- RoHS compliant

ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance [2] (uH)	Inductance Tolerance (%) K	DCR (m) Typ.	SRF (MHz) Typ.	Rated [3] Current (A)	Marking (XYYY)
UISHM612K-100F	10	±10	65	25	2.70	K100
UISHM612K-120F	12	±10	70	22	2.50	K120
UISHM612K-150F	15	±10	90	20	2.20	K150
UISHM612K-180F	18	±10	100	16	2.00	K180
UISHM612K-220F	22	±10	110	15	1.80	K220
UISHM612K-270F	27	±10	130	14	1.60	K270
UISHM612K-330F	33	±10	150	13	1.50	K330
UISHM612K-390F	39	±10	180	12	1.30	K390
UISHM612K-470F	47	±10	200	11	1.20	K470
UISHM612K-560F	56	±10	250	9	1.10	K560
UISHM612K-680F	68	±10	280	8	1.00	K680
UISHM612K-820F	82	±10	350	7.5	0.90	K820
UISHM612K-101F	100	±10	450	7	0.84	K101
UISHM612K-121F	120	±10	500	6.5	0.77	K121
UISHM612K-151F	150	±10	650	6.2	0.69	K151
UISHM612K-181F	180	±10	750	6	0.62	K181
UISHM612K-221F	220	±10	950	5.2	0.57	K221
UISHM612K-271F	270	±10	1100	4.5	0.51	K271
UISHM612K-331F	330	±10	1350	4	0.46	K331
UISHM612K-391F	390	±10	1600	3.5	0.43	K391
UISHM612K-471F	470	±10	2000	2.8	0.39	K471
UISHM612K-561F	560	±10	2400	2.7	0.36	K561
UISHM612K-681F	680	±10	2700	2.6	0.32	K681
UISHM612K-821F	820	±10	3600	1.7	0.30	K821
UISHM612K-102F	1000	±10	4300	1.6	0.27	K102

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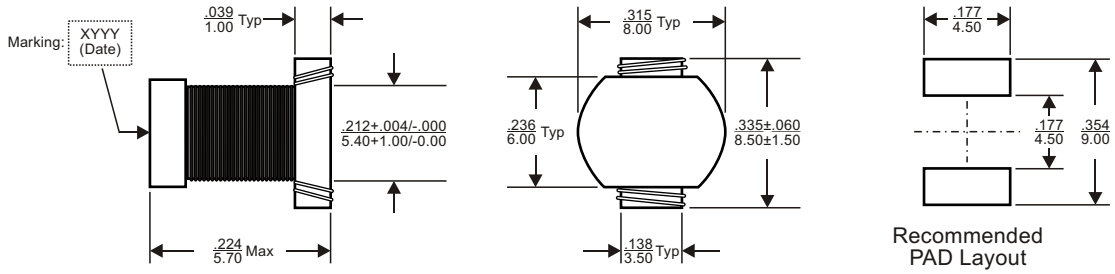
Part Number	Inductance [2] (uH)	Inductance Tolerance (%) K	DCR (m) Typ.	SRF (MHz) Typ.	Rated [3] Current (A)	Marking (XYYY)
UISHM612K-122F	1200	±10	5600	1.5	0.25	K122
UISHM612K-152F	1500	±10	6500	1.45	0.22	K152
UISHM612K-182F	1800	±10	7000	1.4	0.20	K182
UISHM612K-222F	2200	±10	9200	1.3	0.18	K222
UISHM612K-272F	2700	±10	10500	1.2	0.16	K272

Notes:

1. Ordering Information: UISHM612a - bbbFc.
   - UISHM612 = Product Type.
   - a = Tolerance of Inductance (K = ±10%).
   - bbb = Inductance value in uH (i.e. 470 = 47uH; 471 = 470uH; 152 = 1500uH).
   - F = Internal Control Code.
   - c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance tested at 1kHz, 0.1Vrms with rated DC current.
3. Rated current is the maximum DC current at which the inductance will be increased by 10% from its initial(zero DC) value or the current at which △T=40°C, whichever is lower.
4. Operating temperature range: -40°C to +125°C.
5. 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

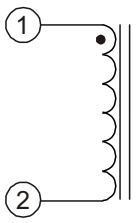


Notes:

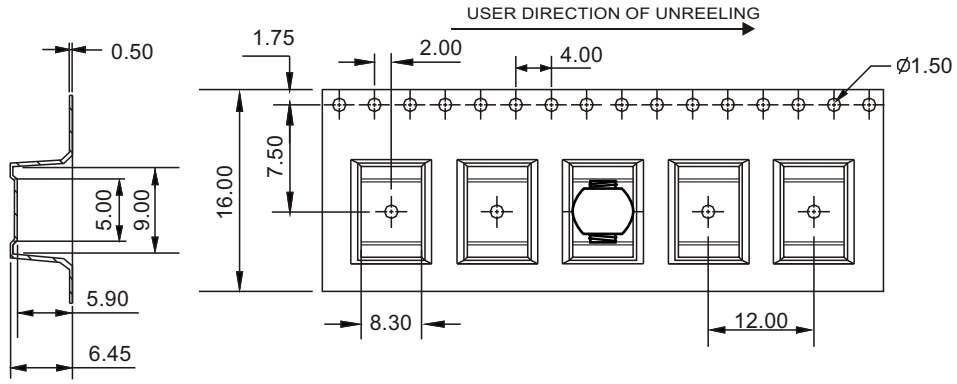
6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
7. Unless otherwise specified, all tolerances are $\pm\frac{.010}{0.25}$.

Weight (in gram)	:	1.0typ.
Tape & Reel	:	750 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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