

REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	08/29/14

When ordering, please add suffix "T" to the part number for tape & reel packaging(13" reel).

PAGE 4 AND 5 ARE FOR INTERNAL ONLY

PART NUMBER	PART DESCRIPTION
ASISCDRH128x-yyyF	RoHS compliant per EU Directive 2011/65/EU

TITLE
POWER INDUCTOR, SHIELDED, SMT


WARNING !
 ALL SHEETS OF THIS DOCUMENT ARE CONTROLLED DOCUMENTATION AND ARE NOT TO BE RELEASED OUTSIDE OF E&E OR ITS SUB-CONTRACTORS WITHOUT AUTHORIZATION.

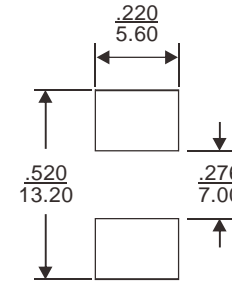
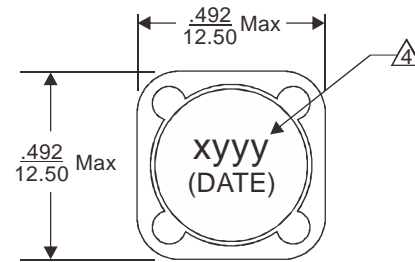
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.

TOLERANCE ARE:

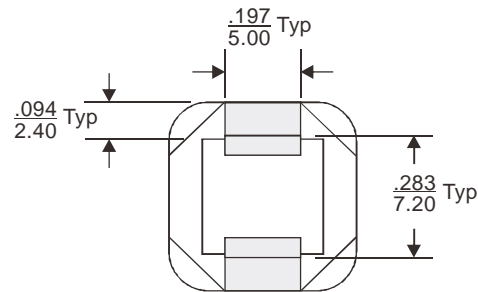
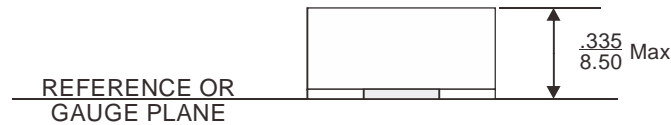
INCH	mm	ANGLE
.XXX ± .005	.XX ± 0.13	X.X ± 0.3
.XX ± .02	.X ± 0.5	X. ± 1

APPROVALS	DATE
DRAWN BY J. FENG	08/29/14
PROJ. ENG J. FENG	08/29/14
APPROVED BY J. YANG	08/29/14
Q.A. D. LUO	08/29/14

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Recommended Pad Layout



1. Dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
2. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.
3. Coplanarity: $\frac{.004}{0.10}$ maximum.
4. Marking "xyyy" is the inductance code which is described in page 3.
5. "(DATE)" includes at least the manufacturing date code (in YYWW format) plus manufacturing side code.

MECHANICAL OUTLINE



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ELECTRICAL SPECIFICATION @25°C:

E&E Part No. ASISCDRH128x-yyyF	Inductance, L (μ H)	Inductance Tolerance(%)	I _{rms} (A)	I _{sat} (A)	DCR (Ω) Typ.	Marking (xyyy)
		M				
ASISCDRH128M-R82F	0.82	±20	11.00	15.00	0.0055	MR82
ASISCDRH128M-2R0F	2.0	±20	8.90	11.00	0.0080	M2R0
ASISCDRH128M-3R3F	3.3	±20	8.10	9.60	0.0100	M3R3
ASISCDRH128M-3R9F	3.9	±20	8.00	9.50	0.0100	M3R9
ASISCDRH128M-4R7F	4.7	±20	7.30	8.40	0.0120	M4R7
ASISCDRH128M-5R6F	5.6	±20	7.15	8.30	0.0125	M5R6
ASISCDRH128M-6R8F	6.8	±20	6.60	7.30	0.0150	M6R8
ASISCDRH128M-100F	10	±20	5.80	6.40	0.0190	M100
ASISCDRH128M-150F	15	±20	4.80	5.20	0.0285	M150
ASISCDRH128M-220F	22	±20	4.15	4.35	0.035	M220
ASISCDRH128M-330F	33	±20	3.35	3.50	0.052	M330
ASISCDRH128M-470F	47	±20	2.80	3.00	0.067	M470
ASISCDRH128M-680F	68	±20	2.35	2.45	0.098	M680
ASISCDRH128M-820F	82	±20	2.10	2.25	0.120	M820
ASISCDRH128M-101F	100	±20	1.87	1.95	0.138	M101
ASISCDRH128M-151F	150	±20	1.61	1.70	0.185	M151
ASISCDRH128M-221F	220	±20	1.24	1.35	0.305	M221
ASISCDRH128M-331F	330	±20	1.02	1.15	0.460	M331
ASISCDRH128M-471F	470	±20	0.86	0.95	0.640	M471
ASISCDRH128M-681F	680	±20	0.69	0.78	1.05	M681
ASISCDRH128M-102F	1000	±20	0.60	0.65	1.38	M102

6. Add the tolerance code of inductance by replacing "x" of the part number by: M=±20%.

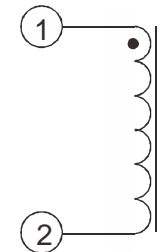
7. Unless otherwise specified, all testing is made at 100KHz, 0.1V_{rms}.

8. The saturation current, I_{sat}, is the current at which the inductance of the component drops by 10% typical at an ambient temperature of 25°C.

9. The heating current, I_{rms}, is the DC current required to raise the component temperature by approximately 40°C at an ambient temperature of 25°C.

9. Operating temperature range: -40°C to +150°C.

10. 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.



SCHEMATIC



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