

# ASPI-1367-3R3M-T Datasheet



DiGi Electronics Part NumberASPI-1367-3R3M-T-DGManufacturerAbracon LLCManufacturer Product NumberASPI-1367-3R3M-TDescriptionFIXED IND 3.3UH 15A 6.8 MOHM SMDDetailed Description3.3 µH Shielded Drum Core, Wirewound Inductor 15<br/>A 6.8mOhm Max Nonstandard

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ASPI-1367-3R3M-T	Abracon LLC
Series:	Product Status:
ASPI-1367	Active
Type:	Material - Core:
Drum Core, Wirewound	Ferrite
Inductance:	Tolerance:
3.3 µН	±20%
Current Rating (Amps):	Current - Saturation (Isat):
15 A	29A
Shielding:	DC Resistance (DCR):
Shielded	6.8mOhm Max
Q @ Freq:	Frequency - Self Resonant:
Ratings:	Operating Temperature:
-	-40°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
200 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.551" L x 0.508" W (14.00mm x 12.90mm)	0.264" (6.70mm)

# **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

# **Shielded SMD Chip Power Inductor**

### ASPI-1367

#### Features

- 100%lead (Pb) free.
- Lowest DCR/ $\mu$ H, in this package size.
- Frequency range up to 5.0 MHz
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction

#### Applications

• PDA/notebook/desktop/server applications

ASP

14.0 x 12.9 x 6.7mm RoHS/RoHS Compliant

- Low profile, high current power supplie
- Battery powered devices
- DC/DC converter for Field Programmable Gate Array (FPGA)

#### **Electrical Specifications**

<b>Operating Temperature:</b>	-40°C to +125°C
Storage Temperature:	Less than +40°C, 70% RH

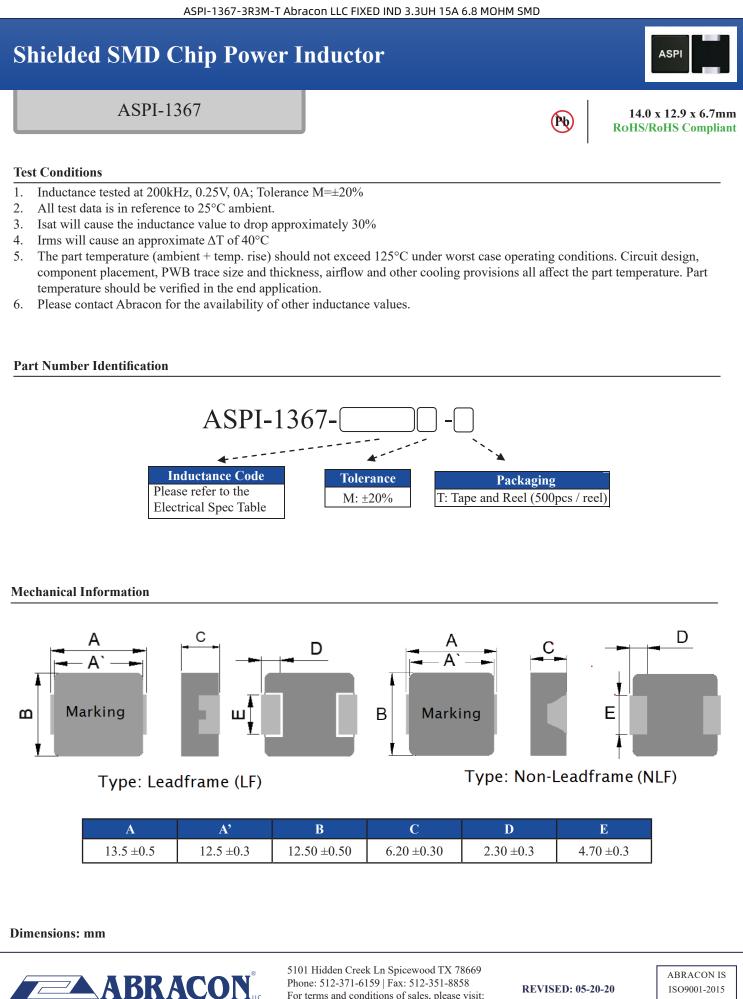
Part Number	L	Tolerance	$R_{DC}(m\Omega)$	$R_{DC}(m\Omega)$	I <sub>sat</sub>	I rms	Lead
ASPI-1367-	(µH)	(M)	Тур	Max	(A)	(A)	Туре*
R15	0.15	М	0.49	0.60	118.0	55.0	NLF
R22	0.22	М	0.47	0.60	112.0	53.0	NLF
R33	0.33	М	0.65	0.80	68.0	46.0	NLF
R47	0.47	М	0.90	1.20	63.0	41.0	NLF
R56	0.56	М	1.05	1.20	58.0	37.0	NLF
R68	0.68	М	1.25	1.50	55.0	35.0	NLF
1R0	1.00	М	1.70	2.30	48.0	30.0	NLF
1R5	1.50	М	2.50	3.00	45.0	27.0	NLF
2R2	2.20	М	3.80	4.00	37.0	22.0	LF
3R3	3.30	М	5.70	6.80	30.0	18.0	LF
4R7	4.70	М	7.00	8.40	28.0	13.5	LF
5R6	5.60	М	8.50	10.0	23.0	12.5	LF
6R8	6.80	М	9.50	11.5	18.0	11.5	LF
8R2	8.20	М	12.0	15.5	16.0	10.5	LF
100	10.0	М	13.2	16.5	15.5	10.0	LF
150	15.0	М	23.2	28	13.0	9.0	LF
220	22.0	М	32.5	37	12.0	9.0	LF
330	33.0	М	48	58	11.0	8.0	LF
470	47.0	М	76	90	9.5	6.5	LF
680	68.0	М	110	130	7.8	4.8	LF
101	100	М	145	165	5.5	4.2	LF

\*Lead Type: NLF=Non-Leadframe, LF=Leadframe



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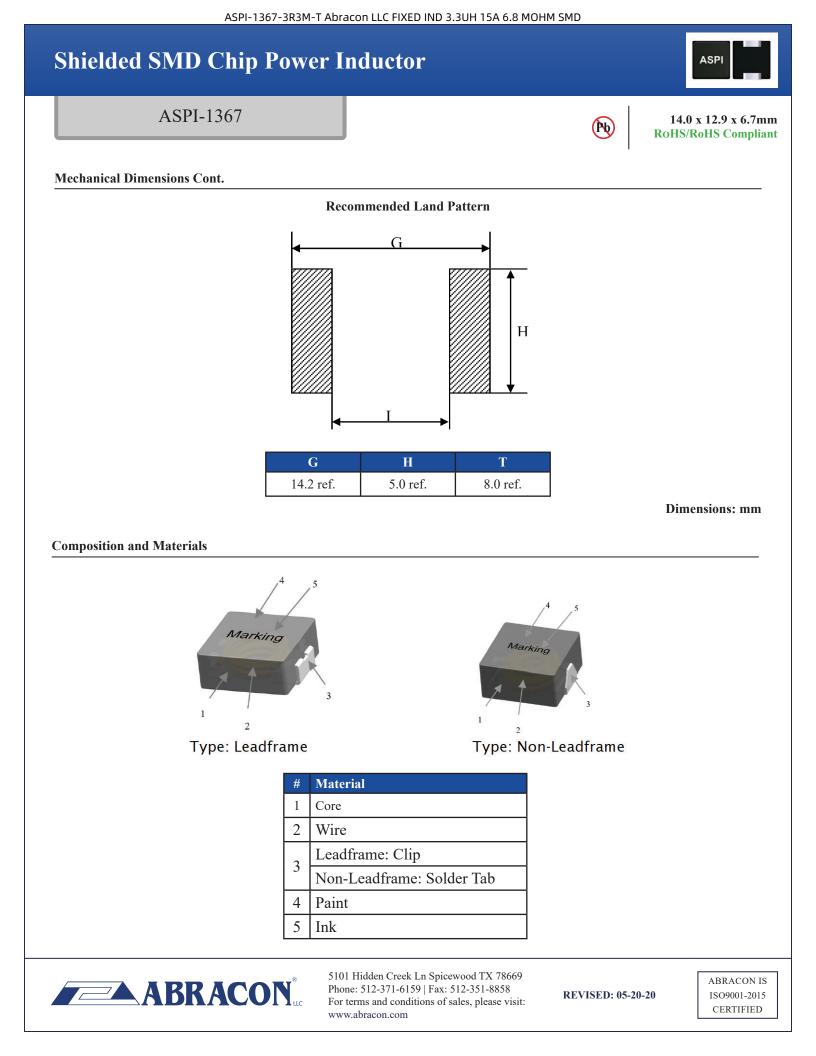
**REVISED: 05-20-20** 



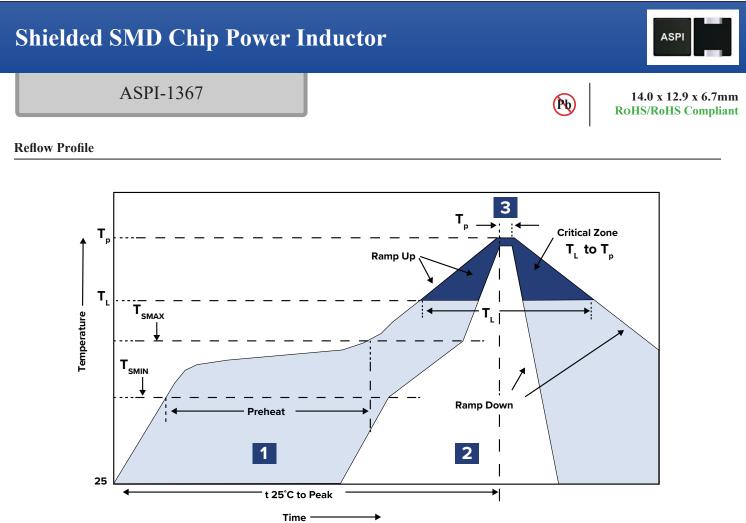
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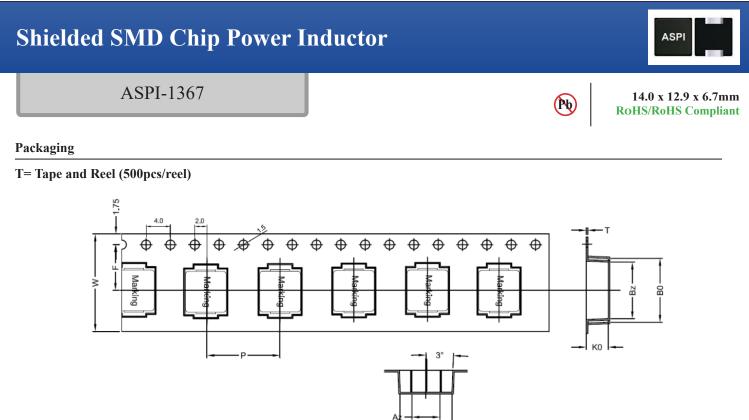
Zone	Description	Temperature	Time
1	Preheat / Soak	$\begin{array}{c} T_{_{SMIN}} \sim T_{_{SMAX}} \\ 150^{\circ}C \sim 200^{\circ}C \end{array}$	60 ~ 180 sec.
2	Reflow	T <sub>L</sub> 217°C	60 ~ 150 sec.
3	Peak heat	Т <sub>Р</sub> 260°С	10 sec. MAX



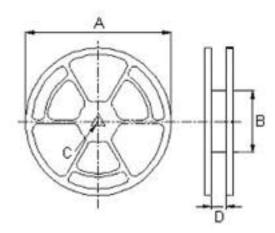
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B <sub>0</sub>	BZ	$\mathbf{A}_{0}$	Az	K <sub>0</sub>	Р	W	F	Т
14.1±0.1	13.0±0.1	12.9±0.1	7.0±0.1	7.0±0.1	16.0±0.1	24±0.3	11.5±0.1	0.35±0.05



Α	В	С	D
330	100 ±2	13.0 +0.5/-0.2	24.4 +2/-0

#### **Dimensions: mm**

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