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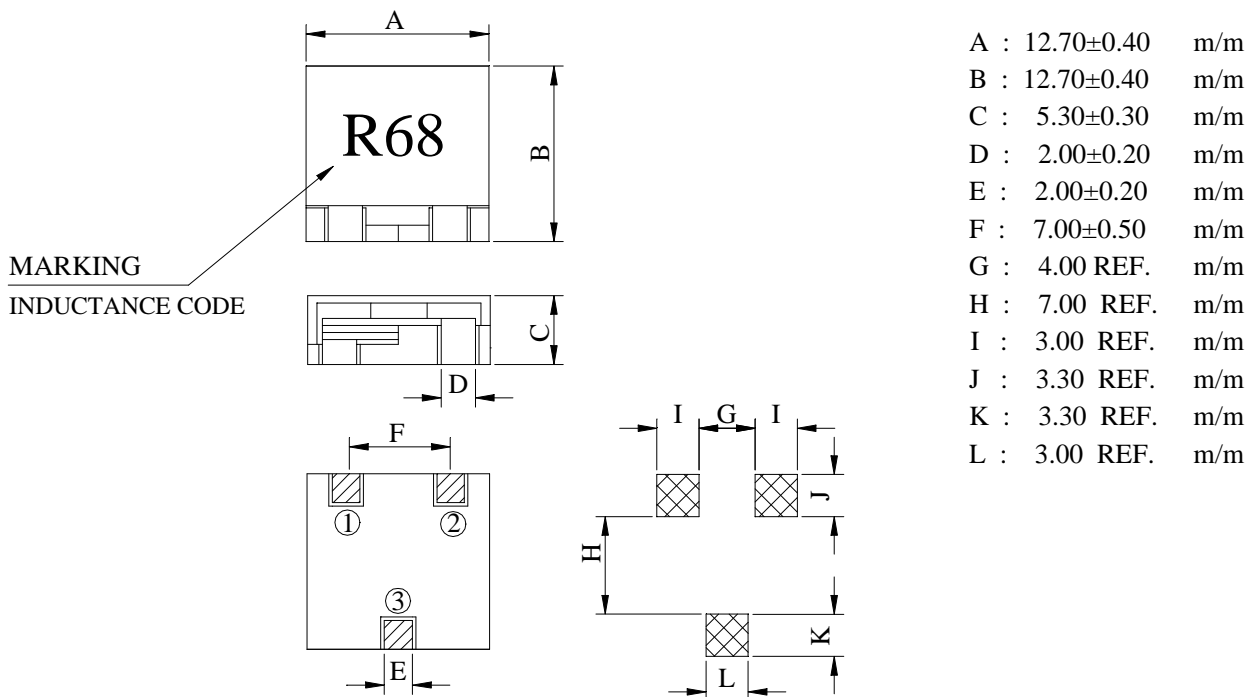
[Tamura](#)
[TS1205-R68M](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

PRODUCT SPECIFICATION

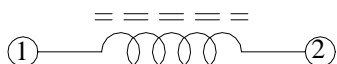
Product Name	1205 SMD POWER INDUCTORS - SHIELDED TYPE	Page	1
TAMURA Part No.	TS1205-XXX	Rev. No.	0

1. MECHANICAL DIMENSIONS :



MARKING
INDUCTANCE CODE

2. SCHEMATIC DIAGRAM :



3. GENERAL SPECIFICATION :

- a. I_{rms} : TEMP. RISE 45°C MAX.
- b. I_{sat1} : ΔL / LOA=10% TYP. , I_{sat2} : ΔL / LOA=20% TYP.
- c. STORAGE TEMP. : -40°C ~ +125°C
- d. OPERATING TEMP. : -25°C ~ +105°C
- e. RESISTANCE TO SOLDER HEAT : 260°C. 10 SECS.

PRODUCT SPECIFICATION

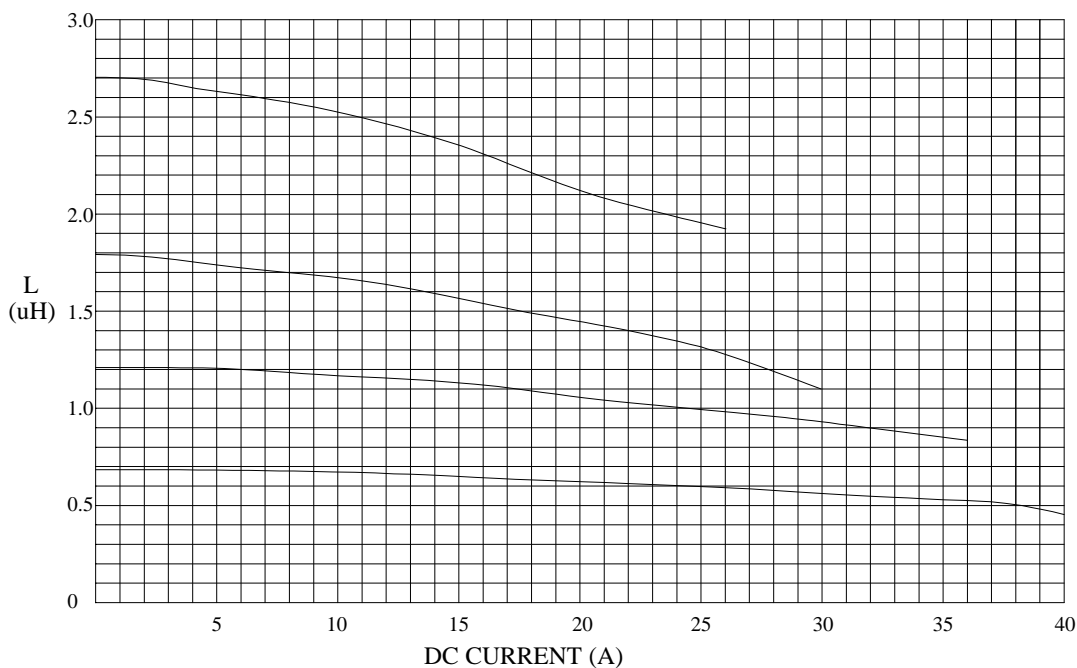
Product Name	1205 SMD POWER INDUCTORS - SHIELDED TYPE	Page	2
TAMURA Part No.	TS1205-XXX	Rev. No.	0

4. ELECTRICAL CHARACTERISTICS :

TAMURA Part No.	INDUCTANCE L (uH)	TEST FREQ. (HZ)	DC RESISTANCE (mOhm) MAX.	I _{rms} (A) MAX.	I _{sat1} (A) TYP.	I _{sat2} (A) TYP.
TS1205-R68M	0.68±20%	0.1V / 100K	1.80	26.0	22.0	38.0
TS1205-1R2M	1.20±20%	0.1V / 100K	2.80	20.0	16.0	30.0
TS1205-1R8M	1.80±20%	0.1V / 100K	3.90	16.0	12.0	22.0
TS1205-2R7M	2.70±20%	0.1V / 100K	4.80	14.0	10.0	18.0

@. R68M : L=0.56 uH MIN. AT 26 A

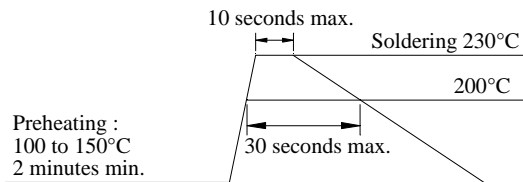
@ INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS



PRODUCT SPECIFICATION

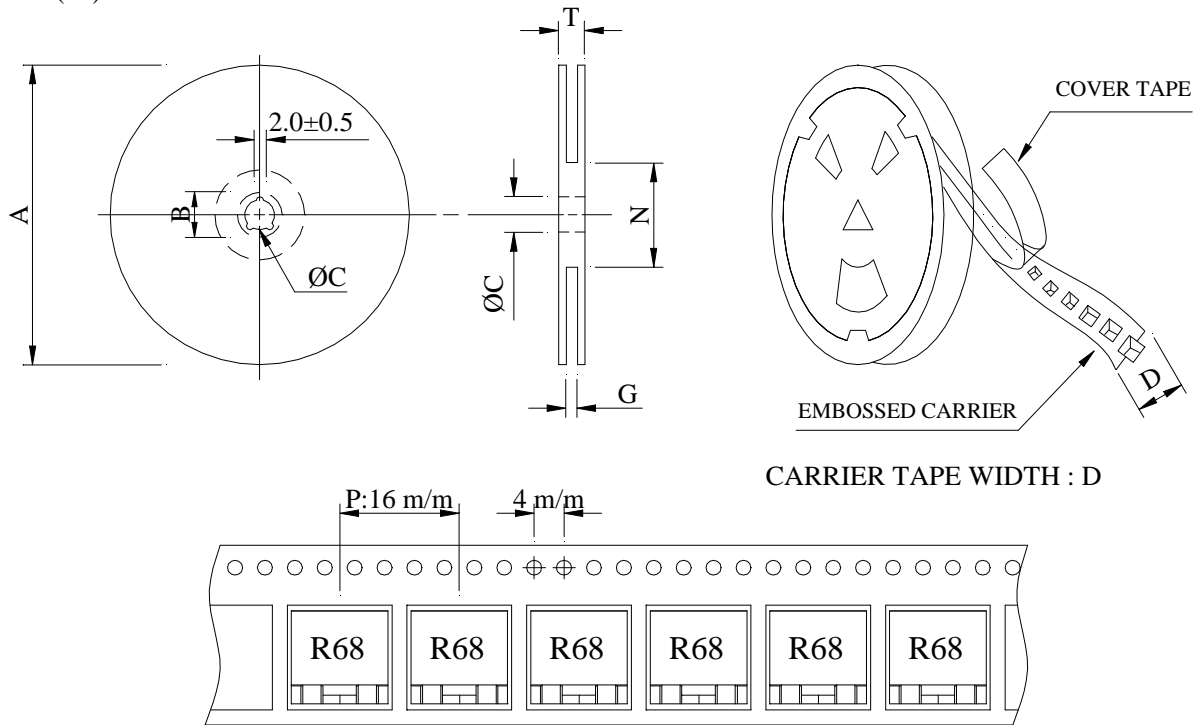
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



5. PACKAGING INFORMATION :

(1) CONFIGURATION



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13	24	26 MAX	50 MIN	30.4

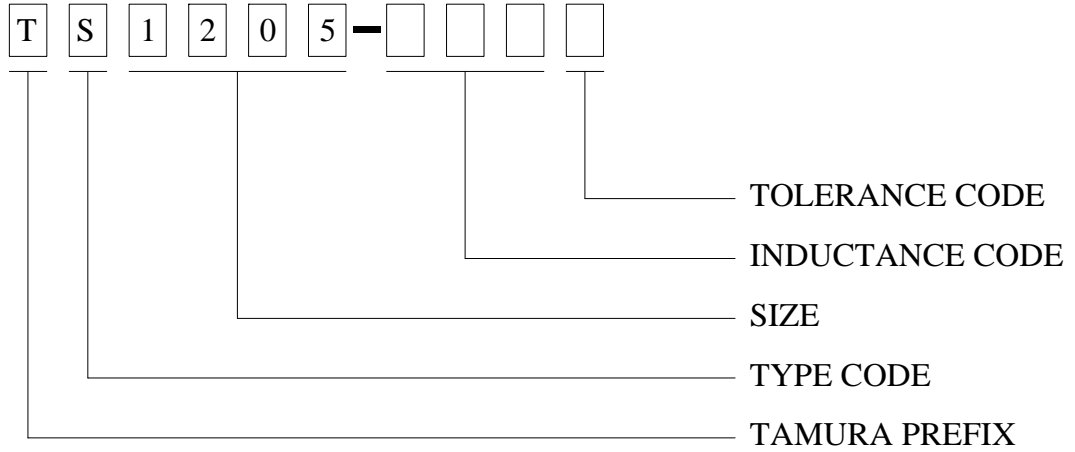
(3) Q'TY & G.W. PER PACKAGE

SERIES	INNER : REEL			OUTER : CARTON		
	Q'TY (PCS)	G.W. (gw)	STYLE	Q'TY (PCS)	G.W. (Kg)	SIZE (cm)
TS1205	600	2,150	13 - 24	2,400	11.30	40 x 40 x 24

PRODUCT SPECIFICATION

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6. Part No. FORMAT :



PRODUCT SPECIFICATION

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7. RELIABILITY TEST :

TEST ITEM	SPECIFICATION	TEST CONDITION
SOLDERABILITY	MORE THAN 90% OF THE TERMINAL ELECTRODE SHALL BE COVERED WITH FRESH SOLDER.	PREHEAT : 125±25°C FOR 60 SECONDS SOLDER : H63A (EUTECTIC SOLDER) SOLDER TEMP. : 230±5°C FLUX : ROSIN DIP TIME : 4±1 SECONDS
THERMAL SHOCK TEST (TEMP. CYCLE)	INDUCTANCE SHALL NOT CHANGE MORE THAN ±20%	ROOM TEMP. —————> $\frac{-25\pm 2^{\circ}\text{C}}{30 \text{ MINUTES}}$ 15 MINUTES
		ROOM TEMP. —————> $\frac{85\pm 2^{\circ}\text{C}}{30 \text{ MINUTES}}$ 15 MINUTES
HUMIDITY RESISTANCE TEST		TEMPERATURE : 40±2°C HUMIDITY : 90 ~ 95% APPLIED CURRENT : PER SPEC. TIME : 500 HOURS
HIGH TEMP. RESISTANCE TEST		TEMPERATURE : 85±2°C APPLIED CURRENT : PER SPEC. TIME : 500 HOURS

PRODUCT SPECIFICATION

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8. UL CARD :

QMFZ2		January 15, 1991									
Component-Plastics											
SUMITOMO BAKELITE CO LTD										E41429 (M)	
(11-cont. from I card)											
PM-9630	BK	0.40	94V-0	150	150	150	—	—	—	—	—
		0.51	94V-0	150	150	150	0	0	—	—	—
		3.18	94V-0	150	150	150	0	1	0	4	3
PM-8315	BK	0.50	94V-0	150	150	150	3	0	0	—	—
PM-8315J	BN	0.71	94V-0	150	150	150	2	0	0	—	—
		1.47	94V-0	150	150	150	0	2	0	—	—
		3.05	94V-0	150	150	150	0	1	0	5	4
		6.10	94V-0	150	150	150	0	1	0	5	4
PM-8315K	BK	0.78	94V-1	150	150	150	—	—	—	—	—
		1.52	94V-0	150	150	150	—	—	—	—	—
PM-8320J	BK	0.71	94HB	150	150	150	—	—	—	—	—
PM-8330	BK	0.71	94V-1	150	150	150	—	—	—	—	—
		1.57	94V-0	150	150	150	—	—	—	—	—
PM-8400	BK	0.71	94HB	150	150	150	—	—	—	—	—
PM-9830	BK	0.69	94V-0	150	150	150	0	0	—	—	—
		3.18	94V-0	150	150	150	0	0	0	4	3

Reports: March 29, 1985: May 14, 1974: September 16, 1971: September 16, 1971:
 September 16, 1971: September 16, 1971: March 29, 1985.

Replaces E4142911 dated February 28, 1990. (Cont. on J card)
 683540014 N7047 Underwriters Laboratories Inc. ® D11/0043416

OBMW2		January 7, 1988									
Component - Magnet Wire											
MITSUBISHI CABLE INDUSTRIES LTD										E104048 (S)	
4-3 IKEJIRI ITAMI , HYOGO 664 JAPAN											
Mtl											
Dsg	BC		Coat Type			ANSI				Temp	
EDW-R52	Medis		Ovorcoat			Type				Class	
			Estor-imide			—				155	
Marking: Company name and type designation on package or reels.											
See General Information Preceding These Recognitions											
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.											
Report January 5, 1988.											
302279005	H7642	Underwriters Laboratories Inc.®							D11/0149909		