

Excellent Integrated System Limited

Stocking Distributor

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[Tamura](#)

[TS3316-1R0M](#)

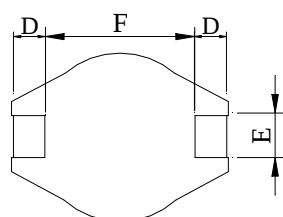
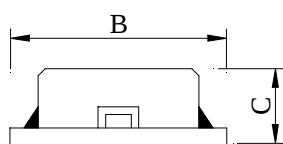
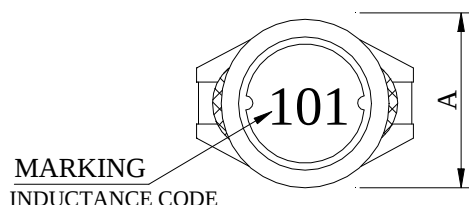
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sales@integrated-circuit.com

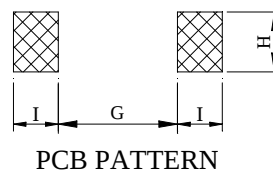
PRODUCT SPECIFICATION

Product Name	3316 SMD POWER INDUCTORS - SHIELDED TYPE	Page	1
TAMURA Part No.	TS3316-XXX	Rev. No.	0

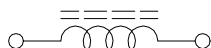
1. CONFIGURATION & DIMENSIONS :



A	: 10.0±0.2	m/m
B	: 12.7±0.2	m/m
C	: 4.9±0.3	m/m
D	: 2.4±0.2	m/m
E	: 2.2±0.2	m/m
F	: 7.6±0.3	m/m
G	: 7.3 REF.	m/m
H	: 2.8 REF.	m/m
I	: 3.0 REF.	m/m



2. SCHEMATIC DIAGRAM :



3. GENERAL SPECIFICATION :

- TEMP. RISE : 40°C MAX.
- RATED CURRENT : BASE ON TEMP. RISE & $\Delta L / LOA=10\%$ MAX.
- STORAGE TEMP. : -40°C ----+105°C
- OPERATING TEMP. : -25°C----+85°C
- RESISTANCE TO SOLDER HEAT : 260°C FOR 10 SECS.

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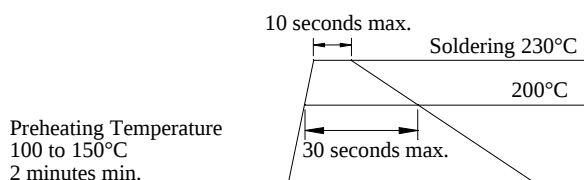
4. ELECTRICAL CHARACTERISTICS :

TAMURA Part No.	INDUCTANCE (μ H)	Q REF.	TEST FREQ. (HZ)		SRF (MHZ) TYP.	RDC (mOhm) MAX	IDC (A)
			L	Q			
TS3316-1R0M	1.0 $\pm$ 20%	50	100K		130.0	21	5.00
TS3316-1R5M	1.5 $\pm$ 20%	60	100K		110.0	22	4.50
TS3316-2R2M	2.2 $\pm$ 20%	70	100K		90.0	27	3.80
TS3316-3R3M	3.3 $\pm$ 20%	70	100K		70.0	39	3.30
TS3316-4R7M	4.7 $\pm$ 20%	70	100K		50.0	40	2.70
TS3316-6R8M	6.8 $\pm$ 20%	70	100K		30.0	55	2.20
TS3316-100M	10.0 $\pm$ 20%	60	100K		28.0	65	1.50
TS3316-150M	15.0 $\pm$ 20%	60	100K		20.0	85	1.50
TS3316-220M	22.0 $\pm$ 20%	50	100K		19.0	207	1.30
TS3316-330M	33.0 $\pm$ 20%	70	100K		15.0	334	1.10
TS3316-470M	47.0 $\pm$ 20%	70	100K		13.0	472	0.80

PRODUCT SPECIFICATION

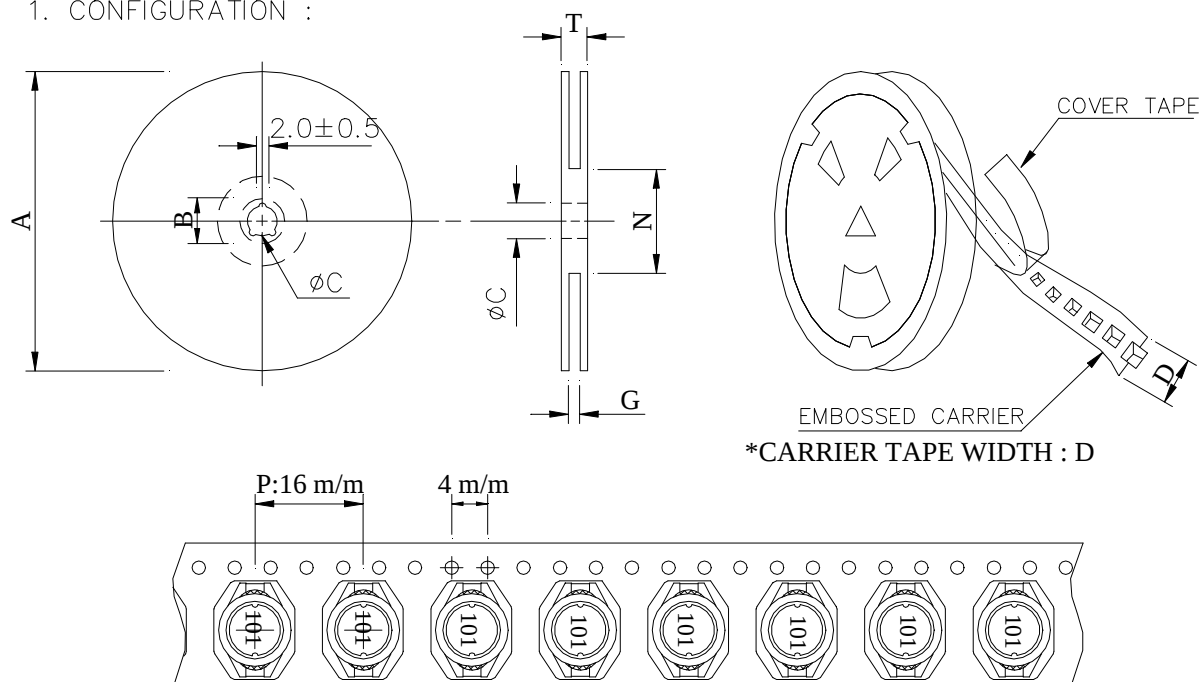
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



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

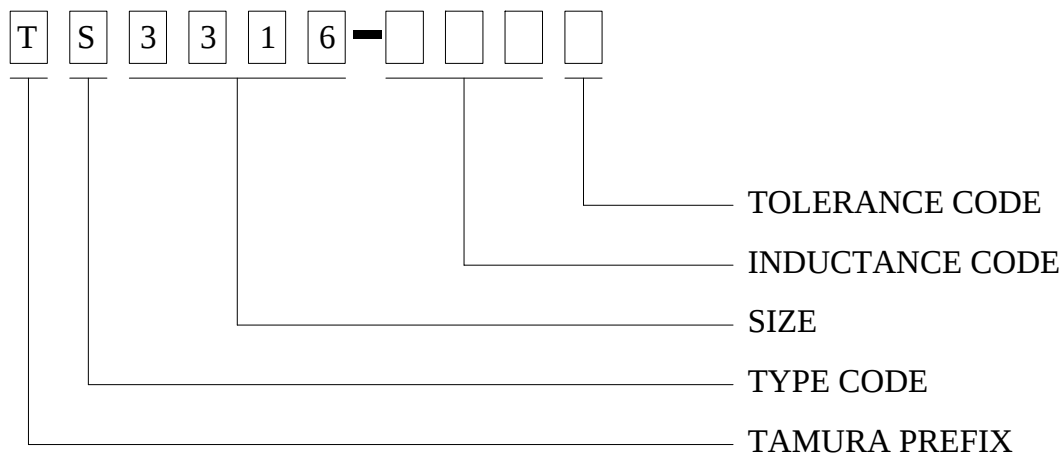
(3) Q'TY & G.W. PER PACKAGE

SERIES	INNER : REEL			OUTER : CARTON		
	Q'TY (PCS)	G.W. (gw)	STYLE	Q'TY (PCS)	G.W. (Kg)	SIZE (cm)
TS3316	500	1000	13 - 24	1000	2	40 x 40 x 24

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6. Part No. FORMAT :



PRODUCT SPECIFICATION

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TAMURA Part No.	TS3316-XXX	Rev. No.	0

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. —————→ -25±2°C 15 MINUTES 30 MINUTES ROOM TEMP. —————→ 85±2°C 15 MINUTES 30 MINUTES TOTAL : 50 CYCLES
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