

Shielded Power Inductors TL7341SG (7.3x7.3x4.1 mm)

FEATURES:

- Low DCR and excellent current handling
- 6.6 x 6.6 mm footprint; 4.1 mm high shielded inductors
- Operating temperature range: -40°C to +85°C
with Irms current, +85°C to +125°C with derated current
- Storage temperature range: -40°C to +125°C



Specifications(25 °C):

Part Number ¹	Inductance ² (uH)	DCR (Ohms)		SRF Typ (MHz)	Isat(A) ³			Irms(A) ⁴	
		Typ	Max		10% drop	20% drop	30% drop	20°C rise	40°C rise
TL7341SG-3R3N_	3.3±30%	0.014	0.018	85	2.74	3.28	3.72	3.95	5.00
TL7341SG-5R0N_	5.0±30%	0.018	0.023	49	2.30	2.82	3.16	3.40	4.70
TL7341SG-6R2N_	6.2±30%	0.024	0.027	42	2.18	2.66	2.98	3.05	4.30
TL7341SG-7R4N_	7.4±30%	0.027	0.031	35	1.92	2.32	2.56	2.80	4.10
TL7341SG-8R7N_	8.7±30%	0.029	0.034	33	1.78	2.12	2.36	2.80	3.90
TL7341SG-100M_	10±20%	0.032	0.038	32	1.64	1.92	2.10	2.80	3.80
TL7341SG-120M_	12±20%	0.040	0.050	27	1.48	1.76	1.92	2.45	3.30
TL7341SG-150M_	15±20%	0.047	0.055	26	1.36	1.60	1.78	2.05	3.00
TL7341SG-180M_	18±20%	0.065	0.075	25	1.20	1.46	1.62	1.85	2.65
TL7341SG-220M_	22±20%	0.074	0.082	22	1.02	1.26	1.42	1.70	2.35
TL7341SG-270M_	27±20%	0.091	0.109	19	1.00	1.14	1.22	1.50	2.10
TL7341SG-330M_	33±20%	0.104	0.124	17	0.91	1.04	1.16	1.50	1.95
TL7341SG-390M_	39±20%	0.115	0.130	15	0.85	1.01	1.12	1.50	1.90
TL7341SG-470M_	47±20%	0.127	0.155	14	0.74	0.92	1.00	1.50	1.85
TL7341SG-560M_	56±20%	0.174	0.202	11	0.68	0.80	0.87	1.25	1.60
TL7341SG-680M_	68±20%	0.236	0.250	9.6	0.62	0.73	0.80	1.00	1.35
TL7341SG-820M_	82±20%	0.257	0.290	8.5	0.57	0.66	0.72	1.00	1.25
TL7341SG-101M_	100±20%	0.286	0.310	7.2	0.54	0.64	0.71	0.90	1.15
TL7341SG-151M_	150±20%	0.438	0.475	6.0	0.45	0.53	0.58	0.86	1.14
TL7341SG-221M_	220±20%	0.660	0.710	5.0	0.35	0.41	0.47	0.57	0.78
TL7341SG-471M_	470±20%	1.21	1.45	3.0	0.24	0.28	0.32	0.43	0.57
TL7341SG-681K_	680±10%	1.85	1.98	2.5	0.22	0.29	0.29	0.42	0.56

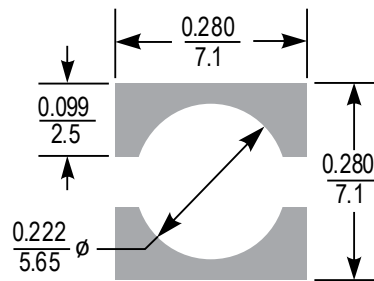
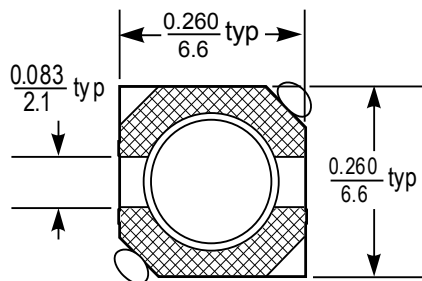
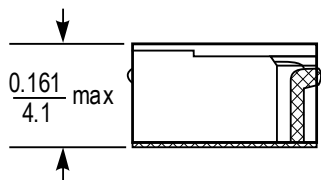
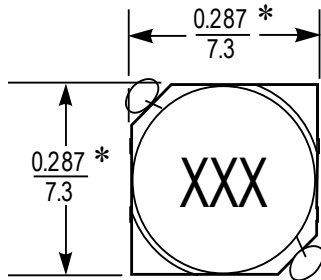
Tolerance: N= ±30%, M= ±20%, K= ±10%

Notes

- TL7341SG-221M_ (See page 2 for part numbering detail)
- Inductance tested at 100KHz, 0.1Vrms .
- Isat is DC current at which the inductance drops the specified amount from its original value at no current
- Irms is current that causes the specified temperature rise from 25°C ambient.

Shielded Power Inductors TL7341SG (7.3x7.3x4.1 mm)

Dimensions : (inch/mm)



Recommended
Land Pattern

Marking :

XXX = Inductance in "μH"

R10 = 0.10 μH

1R5 = 1.5 μH

221 = 220 μH

* Dimensions are of the case not including the termination.

For maximum overall dimensions including the termination, add 0.02 in / 0.51 mm

Part Numbering:

TL7341SG-221MD

TL- Inductor code, 7341- Series, SG-SMD Green, 221- Inductance value, M- Tolerance, D- Reel packaging

Packaging:

1200/13" reel, Plastic tape: 16 mm wide, 0.35 mm thick,

12 mm pocket spacing, 4.5 mm pocket depth

C= 7" machine ready. EIA-481embossed plastic tape (400 part)

B= Less than full reel machine ready

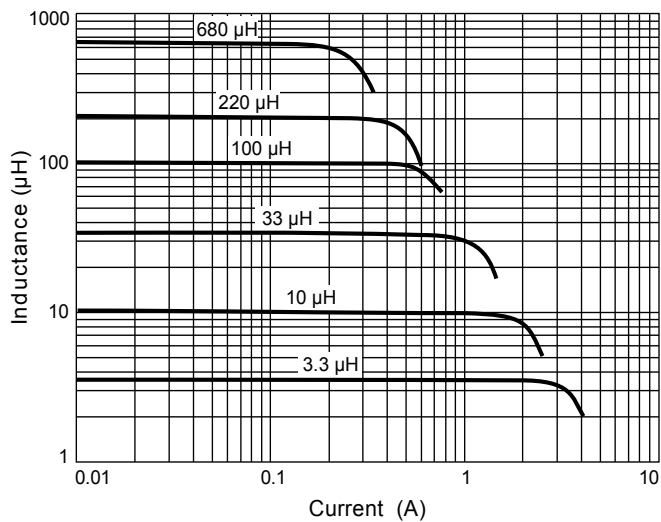
D= 13" machine ready. EIA-481embossed plastic tape (1200 parts)

Termination:

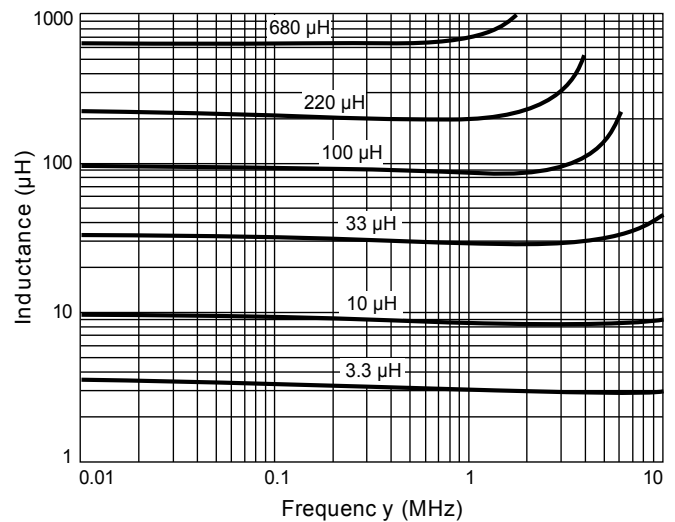
Matte tin over nickel over phosphor bronze

Shielded Power Inductors TL7341SG (7.3x7.3x4.1 mm)

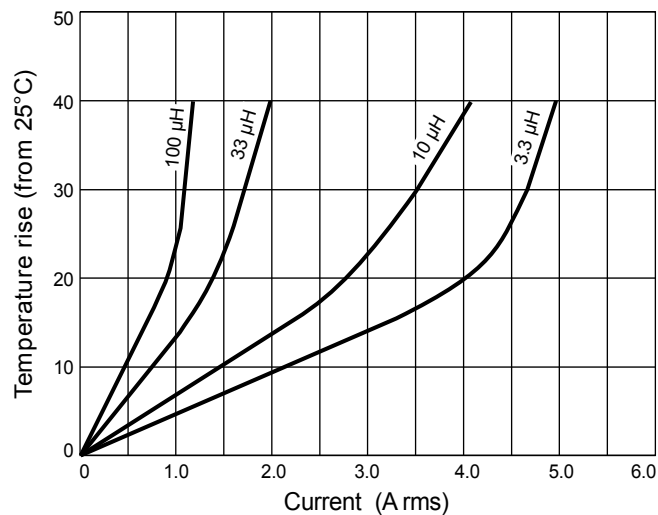
Typical L vs Current



Typical L vs Frequency



Typical Temperature Rise vs Current



Irms Derating

