

Dimensions in mm

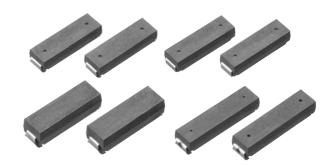
SMD Transponder Coils

Conformity to RoHS Directive

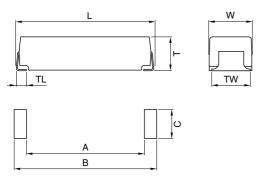
TPL Series TPL1183427/1183525/1254035/1453527

FEATURES

- Because it is complete resin mold, it is high reliability(Because re-mold is possible in customer specially).
- Terminals are high reliability by a spring structure. It has been especially superior in bending and anti-drop proof.
- It maintains stable electrical signal to have employed sectional winding to coil. Because it is a high SRF design structure, a stable electrical characteristic is provided.
- Terminals are lead-free.



SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Туре	L	W	Т	TL	TW	Α	В	С	Weight(g)
TPL1183427	11.8±0.4	3.4±0.4	2.75±0.3	0.8	2.4	9.9	13.5	2.7	0.33
TPL1183525	11.8±0.5	3.5±0.4	2.4±0.3	0.8	3.2	9.9	13.5	3.5	0.31
TPL1254035	12.5±0.5	3.9±0.5	3.4±0.3	8.0	3.5	10.4	14.4	4.0	0.44
TPL1453527	14.5±0.5	3.5±0.4	2.7±0.3	0.8	3.2	12.7	16.3	3.5	0.37

PACKAGING STYLE AND QUANTITIES

Packaging style	Туре	Quantity		
	TPL1183427	2500 pieces/reel		
Toning	TPL1183525	2500 pieces/reel		
Taping	TPL1254035	2000 pieces/reel		
	TPL1453527	2500 pieces/reel		

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



ELECTRICAL CHARACTERISTICS

Inductance*1 (mH)[125kHz]	Inductance tolerance*2 (%)	Q typ. [125kHz]	Self-resonant frequency (kHz)typ.	DC resistance (Ω) typ.	Part No.
7.20	±5	66	690	50	TPL1183427-722J-720N
2.61	±5	50	650	26	TPL1183525-262J-261N
7.08	±5	72	800	45	TPL1254035-712J-708N
2.35	±5	52	590	23	TPL1453527-242J-235

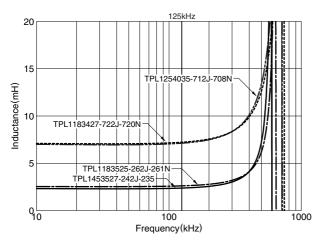
^{*1} This inductance value is an example of the current commercial product. If a different inductance is needed, please contact us.

16047E TEST FIXTURE(Agilent) with TDK original base

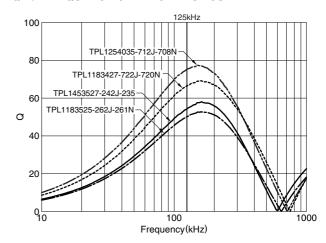
Rdc: VP-2941A MILLIOHM METER(MATSUSHITA)

• If an ultrasonic process is used, confirm the condition settings in order to prevent disconnection.

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS



 $^{^{*2}}$ Available for an inductance tolerance of less than $\pm 5\%$.

[•] Test equipment L, Q, SRF: 4194A IMPEDANCE ANALYZER(HP)

[•] All specifications are subject to change without notice.