Transponder coils TPLC series (for automotive)

AEC-Q200

TPLC553030 type



FEATURES

- O Transponder coils that ensure high reliability suitable for automotive applications.
- O Ensures high reliability suitable for automotive applications by adopting higher heat resistance wire and welding wire connection.
- Operating temperature: -40 to +125°C (including self-temperature rise)
- O Compliant with AEC-Q200

APPLICATION

○ Tire-pressure monitoring system (TPMS)

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

L*		Q	Measurement frequency (kHz)	DC resistance (Ω)	Part No.
(mH)	Tolerance	min.		max.	
5.89	±3%	35	125	70	TPLC553030-592H
5.09	±0 /0	55	125	-	<u>11 200000-09211</u>

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

TEMPERATURE RANGE, PACKAGE QUANTITY

Operating temperature range*	Storage temperature range	Package quantity
–40 to +125 °C	–40 to +125 °C	2500 pcs/reel

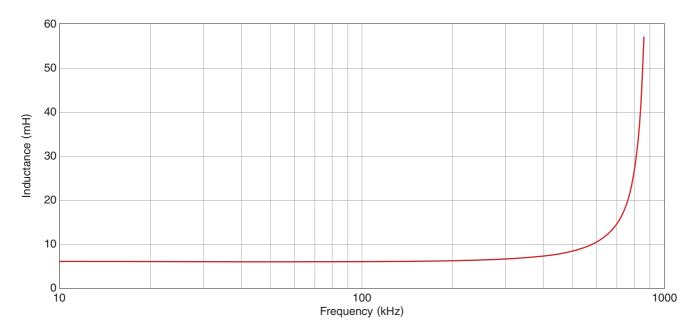
* Operating temperature range includes self-temperature rise.



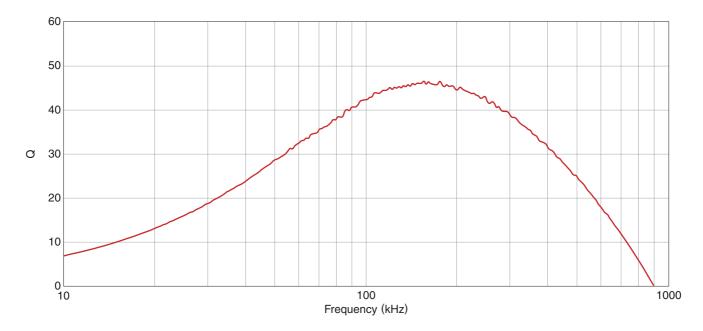
transpondercoil_automotive_tplc55_en

TPLC553030 type

L FREQUENCY CHARACTERISTICS



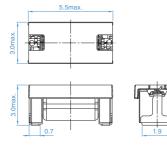
Q FREQUENCY CHARACTERISTICS



Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
(2/4)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
20210217

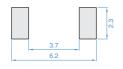
TPLC553030 type

SHAPE & DIMENSIONS



Dimensions in mm

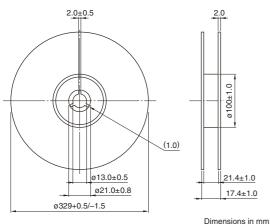
RECOMMENDED LAND PATTERN



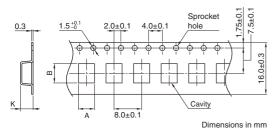
Dimensions in mm

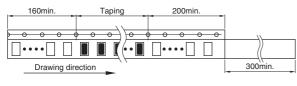
PACKAGING STYLE

REEL DIMENSIONS



TAPE DIMENSIONS





Dimensions in mm

Туре	А	В	K
TPLC553030	3.1	5.6	3.1

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REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

The storage period is less than 12 months. Be sure to follow the or less).	e storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH			
If the storage period elapses, the soldering of the terminal elect	rodes may deteriorate.			
\bigcirc Do not use or store in locations where there are conditions such	as gas corrosion (salt, acid, alkali, etc.).			
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. 	ure difference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range If overheated, a short circuit, performance deterioration, or lifes 	-			
When embedding a printed circuit board where a chip is mounted the overall distortion of the printed circuit board and partial distortion	ed to a set, be sure that residual stress is not given to the chip due to ortion such as at screw tightening portions.			
 Self heating (temperature increase) occurs when the power is to design. 	urned ON, so the tolerance should be sufficient for the set thermal			
\bigcirc Use a wrist band to discharge static electricity in your body thro	ugh the grounding wire.			
O Do not expose the products to magnets or magnetic fields.				
\bigcirc Do not use for a purpose outside of the contents regulated in th	e delivery specifications.			
If an ultrasonic process is used, thoroughly check the condition	setting in order to prevent disconnection.			
O Do not clean the products with solvents. If a potting resin or a m xylene is used, consult with us in advance.	oisture-proof coat containing a solvent such as acetone, toluene or			
equipment, industrial robots) under a normal operation and use The products are not designed or warranted to meet the require	r equipment, personal equipment, office equipment, measurement			
society, person or property. If you intend to use the products in the applications listed below set forth in the each catalog, please contact us.	or if you have special requirements exceeding the range or conditions			
 (1) Aerospace/Aviation equipment (2) Transportation equipment (electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related equipment 	 (8) Public information-processing equipment (9) Military equipment (10) Electric heating apparatus, burning equipment (11) Disaster prevention/crime prevention equipment (12) Safety equipment 			
(6) Seabed equipment(13) Other applications that are not considered general-purple(7) Transportation control equipmentapplications				
When designing your equipment even for general-purpose applicate protection circuit/device or providing backup circuits in your equipment of the second seco				

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (4/4)