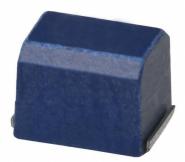


NLC453232T-470K-PF Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	NLC453232T-470K-PF-DG
Manufacturer	TDK Corporation
Manufacturer Product Number	NLC453232T-470K-PF
Description	FIXED IND 47UH 260MA 1.9 OHM SMD
Detailed Description	47 μH Unshielded Drum Core, Wirewound Inductor 260 mA 1.90hm Max 1812 (4532 Metric)

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Purchase and inquiry

Manufacturer:
TDK Corporation
Product Status:
Obsolete
Material - Core:
Ferrite
Tolerance:
±10%
Current - Saturation (Isat):
DC Resistance (DCR):
1.90hm Max
Frequency - Self Resonant:
11.5MHz
Operating Temperature:
-40°C ~ 105℃
Mounting Type:
Surface Mount
Supplier Device Package:
1812
Height - Seated (Max):
0.134" (3.40mm)

Environmental & Export classification

RoHS Status:	Moisture Se
ROHS3 Compliant	1 (Unlimite
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

Moisture Sensitivit	y Level (MSL):
1 (Unlimited)	
ECCN:	
EAR99	

Discontinue Issue Dat May 28, 2020	te Lastheurchase Order (Article Mar. 31, 2022	9K-PF TDR*C011P0781P3f Sep. 30, 2022		60MA 1.9 OHM SMD our Web site about replacen	nent information.	
INDUC	TORS				⊗TD	K
Inductors for de Wound ferrite NLC series	ecoupling circuits					RoHS
NLC453	232 type		Product Portal	Search Simulation Model Se	Hection Guide Tech Library	h Note
FEATURES						
◯ E-12 series, wic	e wound inductor for deco le lineup compatible with perature range: -40 to +1	K (\pm 10%) tolerance allo		ges.		
	N					
O Smart meters, A ment, other	V equipment, xDSL, elect	ronic devices for comm	unications infrastru	icture such as mobile b	pase stations, industrial e	əquip-
	R CONSTRUCTIO	N				
NLC	453232	Т -	1R0	K -	PF	
Series name	L×W×H dimensions 4.5×3.2×3.2 mm	Packaging style	Inductance (µH)	Inductance tolerance	Lead-free compatible	

CHARACTERISTICS SPECIFICATION TABLE

L		Q	L, Q measuring	DC resistance	Rated current	Part No.
(µH)	Tolerance	min.	frequency (MHz)	(Ω)max.	(mA)max.	
1	±10%	10	7.96	0.11	1050	NLC453232T-1R0K-PF
1.2	±10%	10	7.96	0.12	1000	NLC453232T-1R2K-PF
1.5	±10%	10	7.96	0.15	<mark>9</mark> 50	NLC453232T-1R5K-PF
1.8	±10%	10	7.96	0.16	900	NLC453232T-1R8K-PF
2.2	±10%	10	7.96	0.18	850	NLC453232T-2R2K-PE
2.7	±10%	10	7.96	0.2	800	NLC453232T-2R7K-PF
3.3	±10%	10	7.96	0.22	750	NLC453232T-3R3K-PF
3.9	±10%	10	7.96	0.24	700	NLC453232T-3R9K-PF
4.7	±10%	10	7.96	0.27	650	NLC453232T-4R7K-PF
5.6	±10%	10	7.96	0.3	650	NLC453232T-5R6K-PF
6.8	±10%	10	7.96	0.35	600	NLC453232T-6R8K-PF
8.2	±10%	10	7.96	0.4	600	NLC453232T-8R2K-PF

Measurement equipment

Measurement i	tem Product No.	Manufacturer
L, Q	4294A	Keysight Technologies
DC resistance	AX-114N	ADEX
Nr. Equivalent m		

* Equivalent measurement equipment may be used.



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. (1/7) Please note that the contents may change without any prior notice due to reasons such as upgrading.

NLC453232 type

CHARACTERISTICS SPECIFICATION TABLE

L		Q	L, Q measuring frequency	DC resistance	Rated current	Part No.
(µH)	Tolerance	min.	(MHz)	(Ω)max.	(mA)max.	
10	±10%	10	2.52	0.5	550	NLC453232T-100K-PF
12	±10%	10	2.52	0.6	500	NLC453232T-120K-PF
15	±10%	10	2.52	0.7	450	NLC453232T-150K-PF
18	±10%	10	2.52	0.8	400	NLC453232T-180K-PE
22	±10%	10	2.52	0.9	370	NLC453232T-220K-PF
27	±10%	10	2.52	1.2	330	NLC453232T-270K-PF
33	±10%	10	2.52	1.4	300	NLC453232T-330K-PF
39	±10%	10	2.52	1.6	280	NLC453232T-390K-PF
47	±10%	10	2.52	1.9	260	NLC453232T-470K-PF
56	±10%	10	2.52	2.2	240	NLC453232T-560K-PF
68	±10%	10	2.52	2.6	220	NLC453232T-680K-PF
82	±10%	10	2.52	3.5	200	NLC453232T-820K-PF
100	±10%	20	0.796	4	180	NLC453232T-101K-PF
120	±10%	20	0.796	4. <mark>5</mark>	160	NLC453232T-121K-PF
150	±10%	20	0.796	6.5	140	NLC453232T-151K-PF
180	±10%	20	0.796	7.5	120	NLC453232T-181K-PF
220	±10%	20	0.796	9	120	NLC453232T-221K-PF
270	±10%	20	0.796	11	100	NLC453232T-271K-PF
330	±10%	20	0.796	13	90	NLC453232T-331K-PF

Measurement equipment

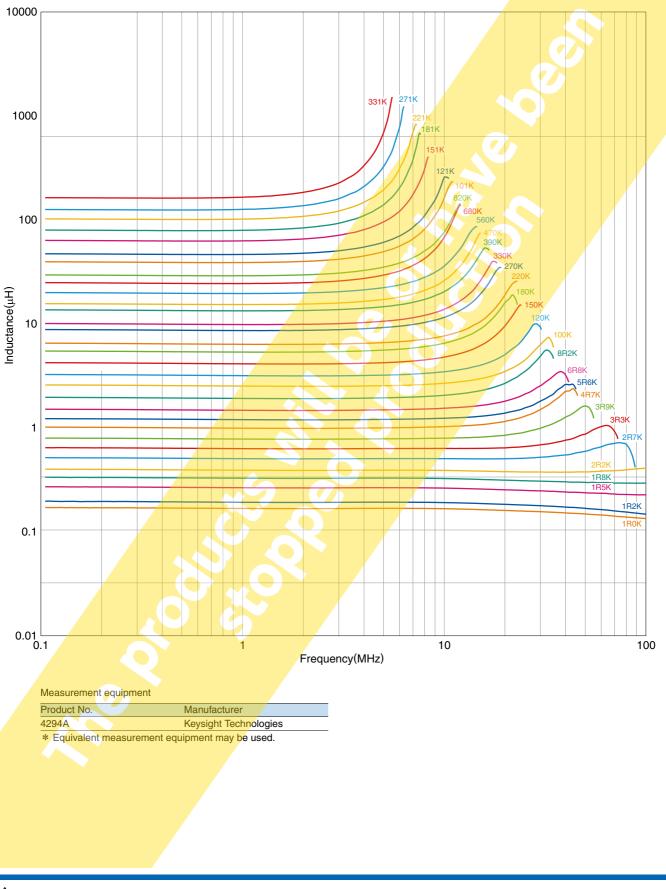
Measurement item	Product No.	Manufacturer	
L, Q	4294A	Keysight Technologies	
DC resistance	AX-114N	ADEX	

* Equivalent measurement equipment may be used.

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. (2/7) Please note that the contents may change without any prior notice due to reasons such as upgrading.

NLC453232 type

L 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.

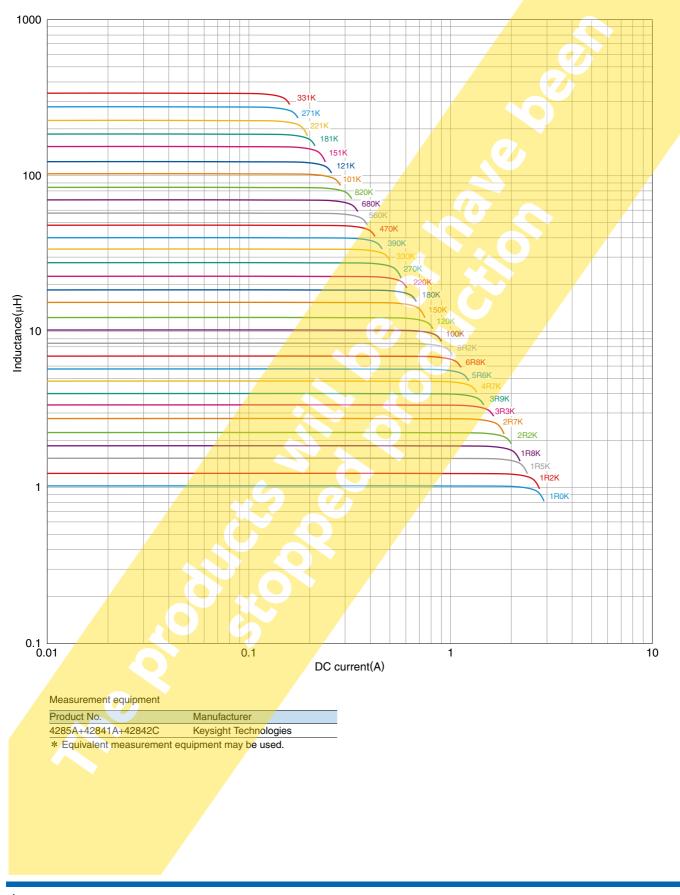
 (3/7)

 Please note that the contents may change without any prior notice due to reasons such as upgrading.

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NLC453232 type

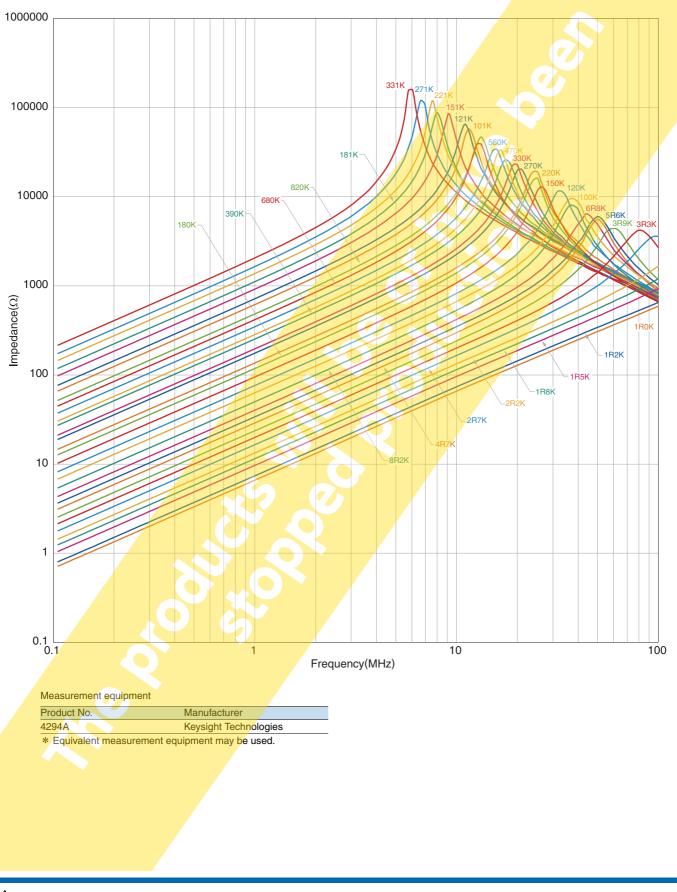
■ INDUCTANCE VS. DC BIAS CHARACTERISTICS



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. (4/7) Please note that the contents may change without any prior notice due to reasons such as upgrading.

NLC453232 type

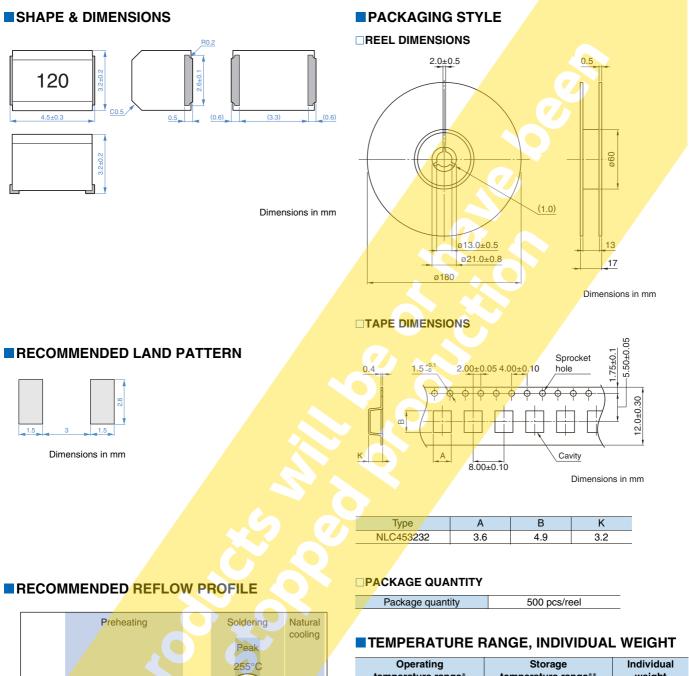
■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



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. (5/7) Please note that the contents may change without any prior notice due to reasons such as upgrading.

公TDK

NLC453232 type



Peak 255°C 230°C 150°C 90 to 120s Time

	Operating temperature range*	Storage temperature range**	Individual weight
	–40 to +105 °C	–40 to +105 °C	180 mg
*	* Operating temperature range includes self-temperature rise.		

** The storage temperature range is for after the assembly.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (6/7) Please note that the contents may change without any prior notice due to reasons such as upgrading.

⊗TDK

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 this products.

Г	
	NDERS
O The storage period is within 6 months. Be sure to follow the storage less).	e conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or
If the storage period elapses, the soldering of the terminal electrodes	s may deteriorate.
\bigcirc Do not use or store in locations where there are conditions such as \underline{c}	as 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. 	difference between the solder temperature and chip temperature
Soldering corrections after mounting should be within the range of the If overheated, a short circuit, performance deterioration, or lifespan s	
O When embedding a printed circuit board where a chip is mounted to the overall distortion of the printed circuit board and partial distortion	
 Self heating (temperature increase) occurs when the power is turn design. 	ed ON, so the tolerance should be sufficient for the set thermal
 Carefully lay out the coil for the circuit board design of the non-magn A malfunction may occur due to magnetic interference. 	etic shield type.
◯ Use a wrist band to discharge static electricity in your body through t	he grounding wire.
○ Do not expose the products to magnets or magnetic fields.	
O Do not use for a purpose outside of the contents regulated in the del	ivery specifications.
 The products listed on this catalog are intended for use in general ment, home appliances, amusement equipment, computer equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirement ity require a more stringent level of safety or reliability, or whose failuperson or property. If you intend to use the products in the applications listed below or if set forth in the each catalog, please contact us. 	ent, personal equipment, office equipment, measurement equip- s of the applications listed below, whose performance and/or qual- re, malfunction or trouble could cause serious damage to society,
set lotti in the each catalog, please contact us.	
(1) Aerospace/aviation equipment	(8) Public information-processing equipment
 (2) Transportation equipment (cars, electric trains, ships, etc.) (3) Medical equipment 	(9) Military equipment(10) Electric heating apparatus, burning equipment
(4) Power-generation control equipment	(10) Electric reating apparatus, burning equipment (11) Disaster prevention/crime prevention equipment
(5) Atomic energy-related equipment	(12) Safety equipment
(6) Seabed equipment	(13) Other applications that are not considered general-purpose
(7) Transportation control equipment	applications
When designing your equipment even for general-purpose applications	, you are kindly requested to take into consideration securing pro-

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. (7/7) Please note that the contents may change without any prior notice due to reasons such as upgrading.

tection circuit/device or providing backup circuits in your equipment.



OUR CERTIFICATE

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