

ELL-6RH151M Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	ELL-6RH151
Manufacturer	Panasonic E
Manufacturer Product Number	ELL-6RH151
Description	FIXED IND 1
Detailed Description	150 µH Shie hm Nonstar

ELL-6RH151M-DG Panasonic Electronic Components ELL-6RH151M FIXED IND 150UH 250MA 1.80HM SMD 150 µH Shielded Wirewound Inductor 250 mA 1.80 hm Nonstandard

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ELL-6RH151M	Panasonic Electronic Components
Series:	Product Status:
Н	Obsolete
Туре:	Material - Core:
Wirewound	
Inductance:	Tolerance:
150 μΗ	±20%
Current Rating (Amps):	Current - Saturation (Isat):
250 mA	
Shielding:	DC Resistance (DCR):
Shielded	1.80hm
Q @ Freq:	Frequency - Self Resonant:
-	
Ratings:	Operating Temperature:
Inductance Frequency - Test:	Mounting Type:
100 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.252" L x 0.236" W (6.40mm x 6.00mm)	0.110" (2.80mm)
Base Product Number:	
ELL-6RH	

Environmental & Export classification

Moisture Sensitivity Level (MSL):
1 (Unlimited)
HTSUS:
8504.50.8000

Power Inductors



Features

• Thin (height 2.5 mm, 3.0 mm)

Panasonic

- Higher reliability in mounting by separating the user terminal and internal connection.
- Large current capability
- RoHS compliant

Recommended Applications

• Audiovisual equipment, Small portable device, DC/DC converter circuit for amusement machine

Cautionary Notes Regarding Usage in DC/DC converters

- Maximum Dissipation of 1 W.
- Maximum case temperature of 105 °C (Ambient & self-heating temperature)

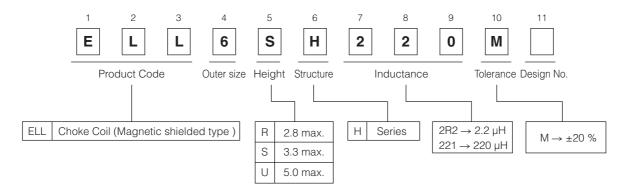
Standard Packing Quantity

• 1,000 pcs./reel

■ As for Soldering Conditions and Safety Precautions,

Please see Data Files

Explanation of Part Numbers



ELL-6RH151M Panasonic Electronic Components FIXED IND 150UH 250MA 1.80HM SMD
Panasonic
Powe

Discontinued

Power Inductors

Dimensions in mm (not to scale)

Marking $\begin{array}{c} & & & \\ & &$

Т

(0.9)



Н

2.5 mm±0.3 mm

3.0 mm±0.3 mm

5.0 mm max

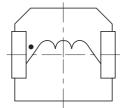
Туре

ELL6RH

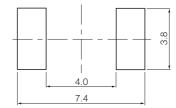
ELL6SH

ELL6UH

Connections (Top view)



Recommended land patterns in mm (not to scale)



Standard Parts

0 +0.15 -0.05

Part No.	Inductance (μH) at 100 kHz Tol. ±20 %	R _{DC} (mΩ) at 20 °C Tol. ±20 %		Rated Current* (mA) max.		Marking
		6RH	6SH	6RH	6SH	
ELL6□H1R0M	1.0	19	19	3000	3400	1R0
ELL6⊟H1R5M	1.5	24	24	2400	3200	1R5
ELL6 H2R0M	2.0		26		2600	2R0
ELL6□H2R2M	2.2	30		2300		2R2
ELL6□H2R7M	2.7	39	31	1800	2400	2R7
ELL6 H3R3M	3.3	44	34	1600	2200	3R3
ELL6⊟H4R7M	4.7	49	42	1580	2000	4R7
ELL6□H5R1M	5.1	56	—	1550	—	5R1
ELL6□H5R6M	5.6	_	49	—	1800	5R6
ELL6□H6R2M	6.2	62		1400		6R2
ELL6□H6R8M	6.8		52		1500	6R8
ELL6 H7R5M	7.5	80		1250	—	7R5
ELL6 H8R2M	8.2	87	61	1200	1400	8R2
ELL6 H100M	10.0	95	65	1100	1300	100
ELL6 H120M	12.0	130	71	1000	1200	120
ELL6 H150M	15.0	150	96	850	1100	150
ELL6 H180M	18.0	170	130	800	1000	180
ELL6 H220M	22.0	220	140	700	900	220
ELL6 H270M	27.0	260	160	650	800	270
ELL6□H330M	33.0	380	180	600	700	330
ELL6 H390M	39.0	410	240	550	650	390
ELL6 H470M	47.0	480	270	500	600	470
ELL6 H560M	56.0	540	290	450	550	560
ELL6 H680M	68.0	770	520	400	500	680
ELL6 H820M	82.0	870	600	350	450	820
ELL6 H101M	100.0	1000	680	300	400	101
ELL6 H121M	120.0	1500	750	280	370	121
ELL6 H151M	150.0	1800	860	250	350	151
ELL6 H181M	180.0	2000	1300	230	300	181
ELL6 H221M	220.0	2300	1400	200	280	221
ELL6 H271M	270.0		2400		260	271
ELL6DH331M	330.0	_	2700		240	331
ELL6DH391M	390.0		2800		210	391
ELL6DH471M	470.0		3200		200	471
ELL6DH561M	560.0		3700		180	561
ELL6 H681M	680.0		4300		160	681

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

ELL-6RH151M Panasonic Electronic Components FIXED IND 150UH 250MA 1.80HM SMD Panasonic Powel

Power Inductors

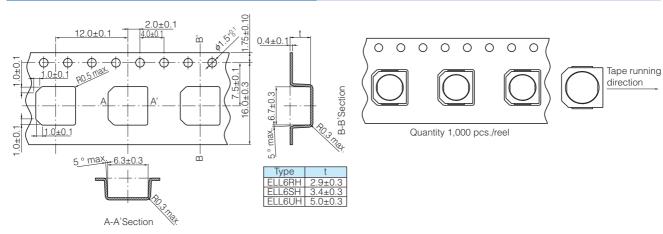
Discontinued

Standard Parts				
Part No.	Inductance (μΗ) at 100 kHz Tol. ±20 %	R _{DC} (mΩ) at 20 °C Tol. ±20 %	Rated Current* (mA) max.	Marking
ELL6UH100M	10.0	63	1800	100
ELL6UH120M	12.0	71	1700	120
ELL6UH150M	15.0	79	1600	150
ELL6UH180M	18.0	88	1400	180
ELL6UH220M	22.0	98	1300	220
ELL6UH270M	27.0	110	1200	270
ELL6UH330M	33.0	130	1100	330
ELL6UH390M	39.0	150	1000	390
ELL6UH470M	47.0	160	900	470
ELL6UH560M	56.0	210	800	560
ELL6UH680M	68.0	230	700	680
ELL6UH820M	82.0	260	650	820
ELL6UH101M	100.0	360	600	101
ELL6UH121M	120.0	480	580	121
ELL6UH151M	150.0	680	500	151
ELL6UH181M	180.0	750	470	181
ELL6UH221M	220.0	840	410	221
ELL6UH271M	270.0	1200	370	271
ELL6UH331M	330.0	1360	330	331
ELL6UH391M	390.0	1500	300	391
ELL6UH471M	470.0	1680	270	471
ELL6UH561M	560.0	2530	260	561
ELL6UH681M	680.0	2830	240	681
ELL6UH821M	820.0	3140	200	821
ELL6UH102M	1000.0	3670	180	102

* Current : This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45 °C.

Embossed Carrier Tape Dimensions in mm (not to scale)

Standard Parts



▲ Safety Precautions

anasonic

(Common precautions for Power Inductors / Wire Wound type)

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.
- $\ensuremath{\boldsymbol{\ast}}$ Systems equipped with a protection circuit and a protection device
- *Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault

▲ Precautions for use

1. Operation range and environments

- ① These products are designed and manufactured for general and standard use in general electronic equipment (e.g. AV equipment, home electric appliances, office equipment, information and communication equipment)
- ② These products are not intended for use in the following special conditions. Before using the products, carefully check the effects on their quality and performance, and determine whether or not they can be used.
 - In liquid, such as water, oil, chemicals, or organic solvent
 - In direct sunlight, outdoors, or in dust
 - In salty air or air with a high concentration of corrosive gas, such as CI_2 , H_2S , NH_3 , SO_2 , or NO_2
 - In an environment where these products cause dew condensation

2. Handling

- ① Do not bring magnets or magnetized materials close to the product. The influence of their magnetic field can change the inductance value.
- ② Do not apply strong mechanical shocks by either dropping or collision with other parts. Excessive shock can damage the part.

3. Washing of board

Kindly consult the Technical department before washing of the PWB with any cleansing agent, and provide the washing condition.

4. Resoldering with a soldering iron

The temperature of the tip of the soldering iron should be 360 °C or less, 4 seconds. And resoldering with a soldering iron should be limited to 1 time, and after that should be cooling these.

5. Mounting side

External force must be less than 5.0 [N] : while mounting.

6. Storage conditions

Normal temperature (-5 to 35 °C), normal humidity (85 % RH max.), shall not be exposed to direct sunlight and harmful gases and care should be taken so as not to cause dew.

<Package markings>

Package markings include the product number, quantity, and country of origin. In principle, the country of origin should be indicated in English.



OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

DCI	DCI	DCI	
QUALITY MANAGEMENT SYSTEM	ENVIRONMENTAL MANAGEMENT SYSTEM	OCCUPATIONAL HEALTH & SAFETY	0428248
CERTIFICATE	CERTIFICATE	MANAGEMENT SYSTEM CERTIFICATE	CERTIFICATE OF INCORPORATION
DIGI ELECTRONICS HK LIMITED	DIGI ELECTRONICS HK LIMITED	DIGI ELECTRONICS HK LIMITED	A. A. B. A. B. W. Dentify weldy that
FLAT RENOS 1054, NO HANG COMMERCIAL CONTREL OVERTA NUCH STREET, MONGHO	PLATERALISE 25/7, HO HORD COMMERCIAL COMMERCIAL MATA YORK STREET, MONORO	PLATERALIS 25/7, HO HONG COMMITTING COMMITTING A MATA YORN STREET, MONORO	DELE REACTION OF A COMPANY OF
TLATING STAF. HO HAVE COMMERCIAL COLUMN 2 FIELD A TURN STREET, MCMORD	RAMEANING 2547, HO HONO COMMINICAL DI NERA VIEN STREET, INCHORO	RAMENDE 254, HO HING COMMITCIN, EN HER 2 NERA YARN STREET, MONGHO	
GB/T 19001-2016 kdt ISO9001:2015	GB/T 24001-2016 idt ISO14001:2015	GB/T45001-2020 idt ISO45001:2018	It is it is it is a start in the start in the start is a start in the start in the start is a start in the start in the start is a start in the start in the start is a start in the start in th
No file	for the	To the second of the second se	A=0 , $A=A=A=0$, $A=0$, $A=0$, $C=0$ (Theoler 422 of the Laws of Hang Kong), and that this company is $X=A=0$, $A=0$
			* Smith company.
	Indicational and Party and Indiana	terturinen HIB	farmed on 23 James 201.
endowthater bes. H. An HED Contraction Theory Contraction Theory	Mark 1991 Annu 1991 Mark 1991 Annu Annu Annu Annu Annu Annu Annu Ann	Interfactions fam Wilks 2001	Kin
000			●混合約51日の日本式を発展か MAABLE DEMO
			Perghanar of Companies Hung-Keng Special Administrative Region
Territoria de la 163 Centra la 164	Gentland inter H an Hit Gentland faith an Hit	Contract incursions: H. an. Mills Contract Spirity Security Society	4. Npm: 公司委員会司的政策改將:並不見不僅從了但公司並承兑其他的部分必須發展或各所 其他的意思報。
The state is a state of the sta	The adults areas of the indicates of the adult has been been been to reach the adult of the adults are solved, seen of the or reach the adult of the product of the adult of the product of the adult of the adult of the adult of the adult of the adult of	The states served of the problems of the state has been due been served as the state of the states are stated as a state of the states and	Pageteleter of a company same with the Companies Rigging takes not confer any tools main lights or any other Reliastual pagenty rights to request of the sampany, same or any part Remail.
A delay de 2014 sector del referencien base des las relativada com	DEI Certification Ltd	Access for 12 for any has been been been been been and the second second	





Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.