

# IHSM3825PJ221L Datasheet



DiGi Electronics Part Number

Manufacturer

Manufacturer Product Number

Description

**Detailed Description** 

IHSM3825PJ221L-DG

Vishay Dale

IHSM3825PJ221L

FIXED IND 220UH 340MA 3.650HM SM

220 µH Unshielded Inductor 340 mA 3.650hm Max Nonstandard

https://www.DiGi-Electronics.com



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## Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHSM3825PJ221L	Vishay Dale
Series:	Product Status:
IHSM-3825	Active
Туре:	Material - Core:
-	Ferrite
Inductance:	Tolerance:
220 μH	±15%
Current Rating (Amps):	Current - Saturation (Isat):
340 mA	280mA
Shielding:	DC Resistance (DCR):
Unshielded	3.650hm Max
Q @ Freq:	Frequency - Self Resonant:
Ratings:	Operating Temperature:
-	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
1 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.440" L x 0.250" W (11.18mm x 6.35mm)	0.225" (5.72mm)

## **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

**IHSM-3825** 



www.vishay.com

## High Current, Surface Mount Inductors - Wirewound Molded



STANDARD ELECTRICAL SPECIFICATIONS					
IND. AT 1 kHz (µH)	DCR MAX. (Ω)	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX. (A)		
1.0	0.015	5.11	4.41		
1.2	0.016	4.93	4.11		
1.5	0.017	4.63	3.66		
1.8	0.022	4.27	3.22		
2.2	0.031	3.61	2.62		
2.7	0.038	3.18	2.40		
3.3	0.045	2.94	2.13		
3.9	0.062	2.57	2.05		
4.7	0.083	2.17	1.93		
5.6	0.091	2.08	1.79		
6.8	0.101	1.94	1.62		
8.2	0.118	1.83	1.50		
10.0	0.126	1.74	1.36		
12.0	0.170	1.50	1.26		
15.0	0.228	1.29	1.11		
18.0	0.306	1.13	1.05		
22.0	0.336	1.05	0.96		
27.0	0.389	0.98	0.86		
33.0	0.440	0.92	0.75		
39.0	0.490	0.86	0.72		
47.0	0.646	0.74	0.68		
56.0	0.845	0.65	0.64		
68.0	1.040	0.61	0.58		
82.0	1.240	0.56	0.51		
100.0	1.440	0.48	0.42		
120.0	2.180	0.45	0.40		
150.0	2.900	0.38	0.37		
180.0	3.280	0.36	0.33		
220.0	3.650	0.34	0.28		
270.0	4.400	0.29	0.26		
330.0	5.070	0.27	0.23		
390.0	5.900	0.23	0.20		
470.0	7.670	0.22	0.19		
560.0	8.850	0.21	0.17		
680.0	10.20	0.18	0.15		
820.0	11.58	0.17	0.14		
1000.0	12.97	0.16	0.13		

### FEATURES

• Flame retardant encapsulant (UL 94 V-0)



- Completely encapsulated winding provides superior environmental protection and moisture resistance
  Compliant
- High current unit in surface mount package printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

#### **APPLICATIONS**

Excellent power line noise filters, filters for switching regulated power supplies, DC/DC converters, SCR and triac controls and RFI suppression.

#### **ELECTRICAL SPECIFICATIONS**

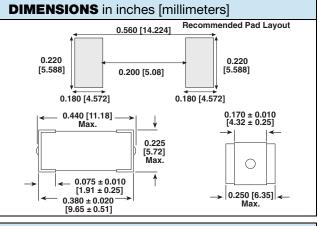
Inductance: Measured at 1 V with no DC current Inductance Tolerance:  $\pm$  15 %

**Incremental Current:** The typical current at which the inductance will be decreased by 5 % from its initial zero DC value

**Operating Temperature:** -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

#### **MECHANICAL SPECIFICATIONS**

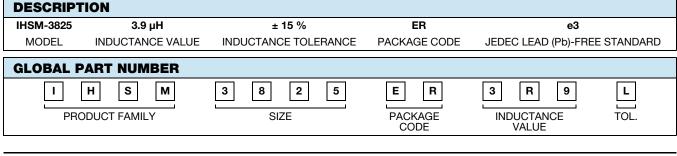
Core: High resistivity ferrite core Encapsulant: Epoxy Terminals: 100 % Sn over Ni



#### PART MARKING

- Model

- Inductance value
- Date code



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