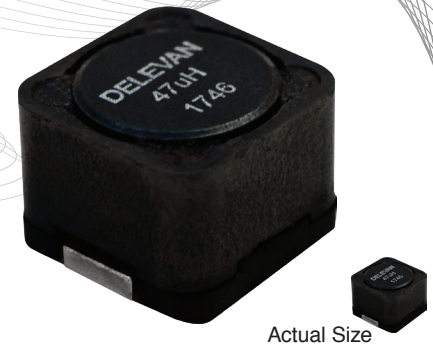




# HRSPD127

## Shielded Surface Mount Inductors High Reliability Applications



### Features and Benefits

Built to meet the following environmental requirements:

- High-Frequency Vibration: MIL-STD-202, Method 204 Test Condition D.
- Mechanical Shock: MIL-STD-202, Method 213 Test Condition I.
- Thermal Shock: MIL-PRF-27, -55°C to +130°C, 25 Cycles.
- Solderability: MIL-STD-202, Method 208.
- Burn-In: 96 Hours at 130°C.
- Moisture Resistance: MIL-STD-202, Method 106.
- Double Cycle SnPb Reflow Profile: MIL-PRF-83446, Section 4.6.18.
- +/-15% and +/-10% tolerances are available upon request.

### Parameters

**Current Rating at 90°C Ambient 40°C Temp Rise Maximum**

**Maximum Ambient Temperature 90°C**

**Operating Temperature Range -55°C to +130°C**

**Part Storage Temperature Range -55°C to +125°C**

**Maximum Power Dissipation at 90°C 0.890 Watts Maximum**

**Inductance** Measured at 1.0V AC at 100 kHz or 10 kHz

**Weight/Mass** 5.2 grams (0.18 ounces) Maximum

**Packaging** Tape and Reel (250 pieces max. / 13" reel)

### Core Material / Termination Finish

Ferrite Core and Shield

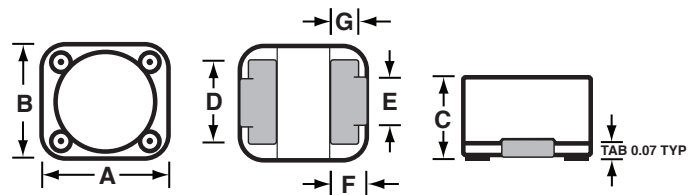
Sn 90 / Pb 10 Tinned Brass Leads

### Testing Level 1

Electrical Characteristics L, DCR

Country of Origin: Mexico

### Dimensions

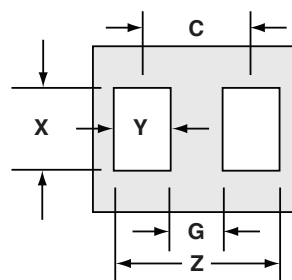


	Inches	Millimeters
A	0.475 ± 0.004	12.07 ± 0.10
B	0.475 ± 0.004	12.07 ± 0.10
C	0.355 maximum	9.02 maximum
D	0.340 ± 0.005	8.64 ± 0.13
E	0.175 ± 0.005	4.45 ± 0.13
F	0.130 ± 0.010	3.30 ± 0.25
G	0.110 ± 0.005	2.80 ± 0.13

Dimensions A and C are over terminals

### Suggested Land Pattern

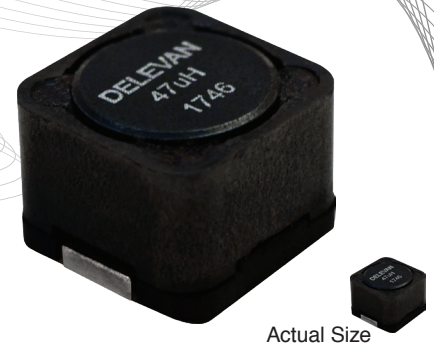
	Inches	Millimeters
Z	0.535	13.59
G	0.190	4.83
X	0.350	9.14
Y	0.173	4.39
C	0.363	9.22





# HRSPD127

Shielded Surface Mount Inductors  
High Reliability Applications



## FERRITE CORE

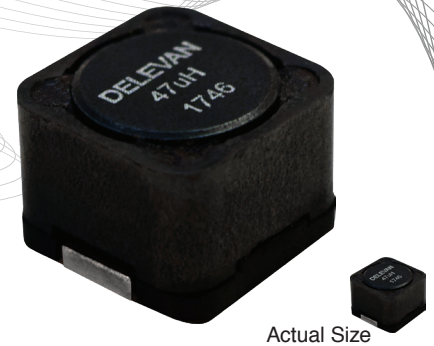
Part Number Prefix	Inductance (uH)	Percentage Tolerance (+/-)	Test Freq (kHz)	DCR Max (Ohms)	Incremental Current (AMPs)	Rated Current (Amps)
HRSPD127-222M	2.2	20	100	0.014	11.82	6.70
HRSPD127-332M	3.3	20	100	0.018	10.00	5.80
HRSPD127-472M	4.7	20	100	0.022	8.67	5.20
HRSPD127-682M	6.8	20	100	0.030	6.84	4.50
HRSPD127-103M	10	20	100	0.035	5.65	4.20
HRSPD127-123M	12	20	100	0.041	5.20	3.90
HRSPD127-153M	15	20	100	0.047	4.48	3.60
HRSPD127-183M	18	20	100	0.049	4.19	3.40
HRSPD127-223M	22	20	100	0.053	3.71	3.20
HRSPD127-273M	27	20	100	0.063	3.33	2.90
HRSPD127-333M	33	20	100	0.069	3.17	2.80
HRSPD127-393M	39	20	100	0.080	2.77	2.60
HRSPD127-473M	47	20	100	0.088	2.55	2.50
HRSPD127-563M	56	20	100	0.110	2.36	2.30
HRSPD127-683M	68	20	100	0.125	2.13	2.10
HRSPD127-823M	82	20	100	0.166	1.94	1.80
HRSPD127-104M	100	20	10	0.182	1.78	1.70
HRSPD127-124M	120	20	10	0.201	1.65	1.60
HRSPD127-154M	150	20	10	0.294	1.40	1.40
HRSPD127-184M	180	20	10	0.320	1.29	1.35
HRSPD127-224M	220	20	10	0.351	1.17	1.25
HRSPD127-274M	270	20	10	0.492	1.06	1.05
HRSPD127-334M	330	20	10	0.540	0.96	1.00
HRSPD127-394M	390	20	10	0.730	0.88	0.90
HRSPD127-474M	470	20	10	0.800	0.81	0.83
HRSPD127-564M	560	20	10	1.120	0.73	0.70
HRSPD127-684M	680	20	10	1.220	0.67	0.68
HRSPD127-824M	820	20	10	1.350	0.62	0.65
HRSPD127-105M	1000	20	10	1.860	0.55	0.55

**Custom Inductance Values Available – Consult factory**

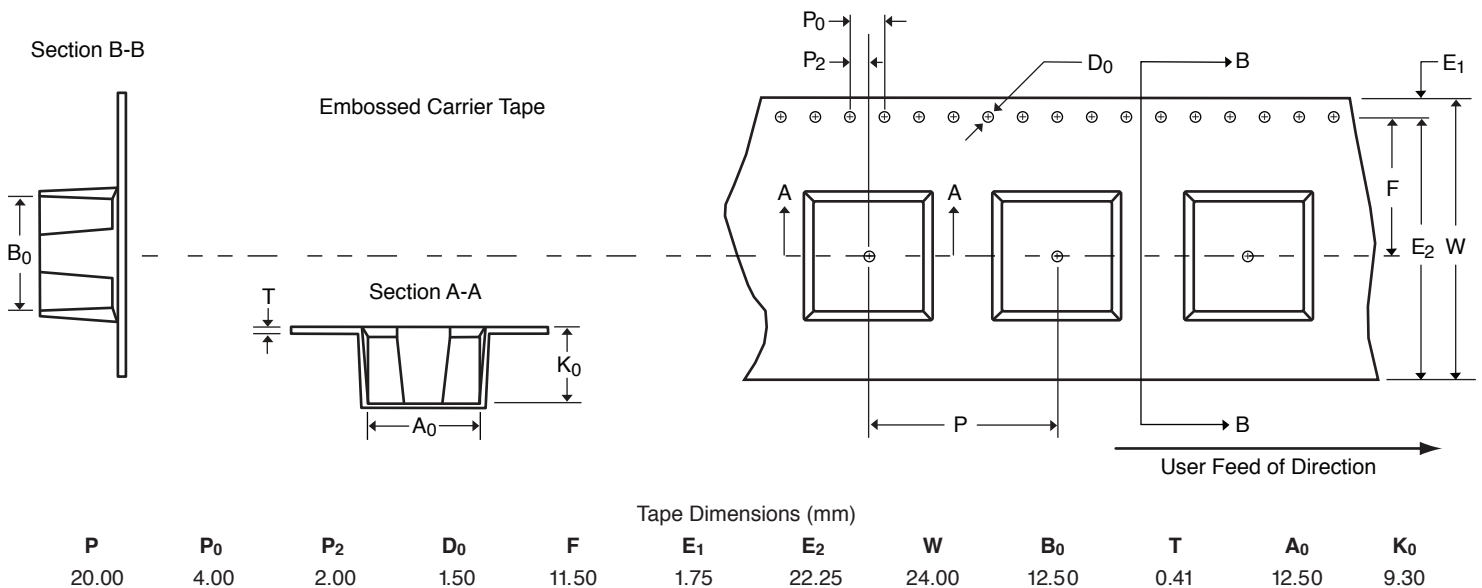


# HRSPD127

Shielded Surface Mount Inductors  
High Reliability Applications



## Tape and Reel Specifications



## Individual Part Marking

DELEVAN, Inductance Value, Date Code (YYWWL).

Part Marking Example: HRSPD127-473M  
DELEVAN  
47uH  
1746

## How To Order

<b>HRSPD127</b>	—	<b>473</b>	<b>M</b>
Inductor Series		Dash Number	Tolerance L = 15% K = 10%

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[HRSPD127-393M](#) [HRSPD127-334M](#) [HRSPD127-183M](#) [HRSPD127-222M](#) [HRSPD127-684M](#) [HRSPD127-274M](#)  
[HRSPD127-823M](#) [HRSPD127-184M](#) [HRSPD127-224M](#) [HRSPD127-223M](#) [HRSPD127-103M](#) [HRSPD127-332M](#)  
[HRSPD127-564M](#) [HRSPD127-154M](#) [HRSPD127-472M](#) [HRSPD127-473M](#) [HRSPD127-104M](#) [HRSPD127-124M](#)  
[HRSPD127-273M](#) [HRSPD127-824M](#) [HRSPD127-394M](#) [HRSPD127-683M](#) [HRSPD127-333M](#)