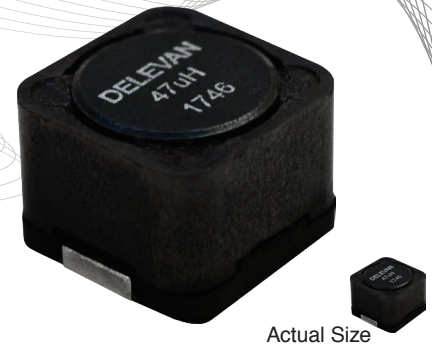




HRSPD127

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

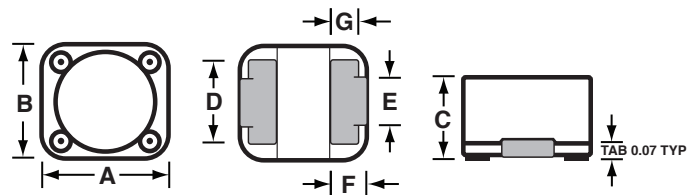
Sn 90 / Pb 10 Tinned Brass Leads

Testing Level 1

Electrical Characteristics L, DCR

Country of Origin: Mexico

Dimensions

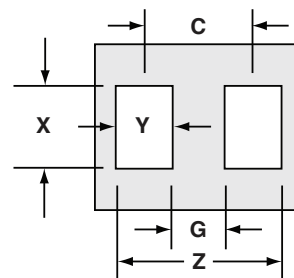


	Inches	Millimeters
A	0.475 ± 0.004	12.07 ± 0.10
B	0.475 ± 0.004	12.07 ± 0.10
C	0.355 maximum	9.02 maximum
D	0.340 ± 0.005	8.64 ± 0.13
E	0.175 ± 0.005	4.45 ± 0.13
F	0.130 ± 0.010	3.30 ± 0.25
G	0.110 ± 0.005	2.80 ± 0.13

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



TESTING
LEVEL 1TEMPERATURE
RANGE -55/+130

HRSPD127

Shielded Surface Mount Inductors
High Reliability Applications



Actual Size

FERRITE CORE

Part Number Prefix	Inductance (uH)	Percentage Tolerance (+/-)	Test Freq (kHz)	DCR Max (Ohms)	Incremental (Saturation) Current (AMPs DC) 10% Decrease in Inductance (Typical)	Rated Current (Amps)
HRSPD127-222M	2.2	20	100	0.009	11.82	8.10
HRSPD127-332M	3.3	20	100	0.010	10.00	7.50
HRSPD127-472M	4.7	20	100	0.012	8.67	6.50
HRSPD127-682M	6.8	20	100	0.014	6.84	6.00
HRSPD127-103M	10	20	100	0.017	5.65	5.50
HRSPD127-123M	12	20	100	0.022	5.20	4.70
HRSPD127-153M	15	20	100	0.026	4.48	4.30
HRSPD127-183M	18	20	100	0.034	4.19	3.70
HRSPD127-223M	22	20	100	0.038	3.71	3.50
HRSPD127-273M	27	20	100	0.053	3.33	3.00
HRSPD127-333M	33	20	100	0.059	3.17	2.80
HRSPD127-393M	39	20	100	0.065	2.77	2.65
HRSPD127-473M	47	20	100	0.074	2.55	2.50
HRSPD127-563M	56	20	100	0.093	2.36	2.30
HRSPD127-683M	68	20	100	0.105	2.13	2.10
HRSPD127-823M	82	20	100	0.142	1.94	1.80
HRSPD127-104M	100	20	10	0.158	1.78	1.70
HRSPD127-124M	120	20	10	0.180	1.65	1.60
HRSPD127-154M	150	20	10	0.235	1.40	1.40
HRSPD127-184M	180	20	10	0.260	1.29	1.35
HRSPD127-224M	220	20	10	0.300	1.17	1.25
HRSPD127-274M	270	20	10	0.420	1.06	1.05
HRSPD127-334M	330	20	10	0.460	0.96	1.00
HRSPD127-394M	390	20	10	0.600	0.88	0.90
HRSPD127-474M	470	20	10	0.690	0.81	0.83
HRSPD127-564M	560	20	10	0.930	0.73	0.70
HRSPD127-684M	680	20	10	1.050	0.67	0.68
HRSPD127-824M	820	20	10	1.140	0.62	0.65
HRSPD127-105M	1000	20	10	1.600	0.55	0.55

Custom Inductance Values Available – Consult factory

TESTING
LEVEL 1TEMPERATURE
RANGE -55/+130

HRSPD127

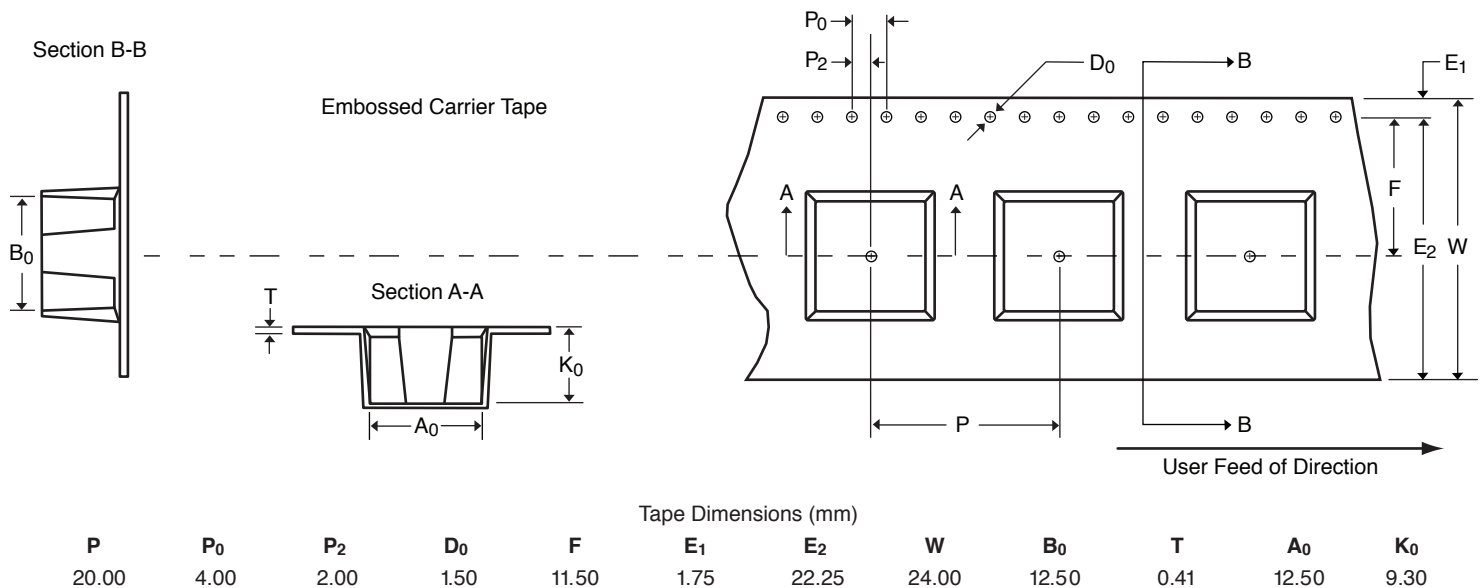
Shielded Surface Mount Inductors
High Reliability Applications



Actual Size



Tape and Reel Specifications



Individual Part Marking

DELEVAN, Inductance Value, Date Code (YYWWL).

Part Marking Example: HRSPD127-473M

DELEVAN
47uH
1746

How To Order

HRSPD127

—

473

M

Inductor Series

Dash Number

Tolerance

L = 15%
K = 10%

API Delevan®

270 Quaker Rd., East Aurora NY 14052 • Phone 716-652-3600 • E-mail: apisales@delevan.com • www.delevan.com

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10/3/2019