



HRSPD74

Shielded Surface Mount Inductors High Reliability Applications



Actual Size

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 0.250 Watts Maximum

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

Weight/Mass 1.5 grams (0.053 ounces) Maximum

Packaging Tape and Reel (500 pieces max. / 13" reel)

Core Material / Termination Finish

Ferrite Core and Shield

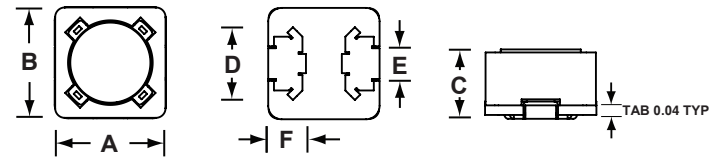
Sn 90 / Pb 10 Tinned Brass Leads

Testing Level 1

Electrical Characteristics L, DCR

Country of Origin: Mexico

Dimensions

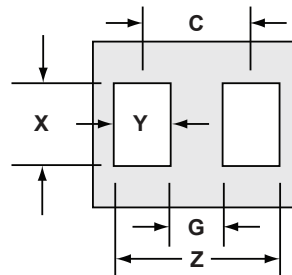


	Inches	Millimeters
A	0.290 ± 0.006	7.37 ± 0.15
B	0.290 ± 0.006	7.37 ± 0.15
C	0.198 maximum	5.03 maximum
D	0.190 ± 0.005	4.83 ± 0.13
E	0.080 ± 0.005	2.03 ± 0.13
F	0.100 ± 0.010	2.54 ± 0.25

Dimensions A and C are over terminals

Suggested Land Pattern

	Inches	Millimeters
Z	0.346	8.79
G	0.076	1.93
X	0.215	5.46
Y	0.135	3.43
C	0.211	5.36





HRSPD74

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)
HRSPD74-122M	1.2	20	100	0.010	7.11	3.90
HRSPD74-242M	2.4	20	100	0.020	4.92	2.80
HRSPD74-352M	3.5	20	100	0.025	4.00	2.60
HRSPD74-472M	4.7	20	100	0.030	3.37	2.15
HRSPD74-682M	6.8	20	100	0.040	2.78	1.95
HRSPD74-103M	10	20	100	0.050	2.21	1.75
HRSPD74-123M	12	20	100	0.060	2.13	1.65
HRSPD74-153M	15	20	100	0.070	1.83	1.40
HRSPD74-183M	18	20	100	0.090	1.73	1.28
HRSPD74-223M	22	20	100	0.110	1.56	1.10
HRSPD74-273M	27	20	100	0.130	1.42	1.05
HRSPD74-333M	33	20	100	0.160	1.28	0.98
HRSPD74-393M	39	20	100	0.200	1.16	0.85
HRSPD74-473M	47	20	100	0.250	1.05	0.80
HRSPD74-563M	56	20	100	0.300	0.98	0.75
HRSPD74-683M	68	20	100	0.350	0.88	0.65
HRSPD74-823M	82	20	100	0.400	0.81	0.60
HRSPD74-104M	100	20	10	0.450	0.74	0.54
HRSPD74-124M	120	20	10	0.650	0.66	0.52
HRSPD74-154M	150	20	10	0.750	0.60	0.51
HRSPD74-184M	180	20	10	0.950	0.55	0.40
HRSPD74-224M	220	20	10	1.050	0.49	0.38
HRSPD74-274M	270	20	10	1.200	0.44	0.32
HRSPD74-334M	330	20	10	1.500	0.40	0.30
HRSPD74-394M	390	20	10	1.800	0.37	0.27
HRSPD74-474M	470	20	10	2.400	0.34	0.25
HRSPD74-564M	560	20	10	2.600	0.31	0.24
HRSPD74-684M	680	20	10	3.200	0.28	0.21
HRSPD74-824M	820	20	10	4.000	0.25	0.20
HRSPD74-105M	1000	20	10	5.000	0.23	0.17

Custom Inductance Values Available – Consult factory

TESTING
LEVEL 1TEMPERATURE
RANGE -55/+130

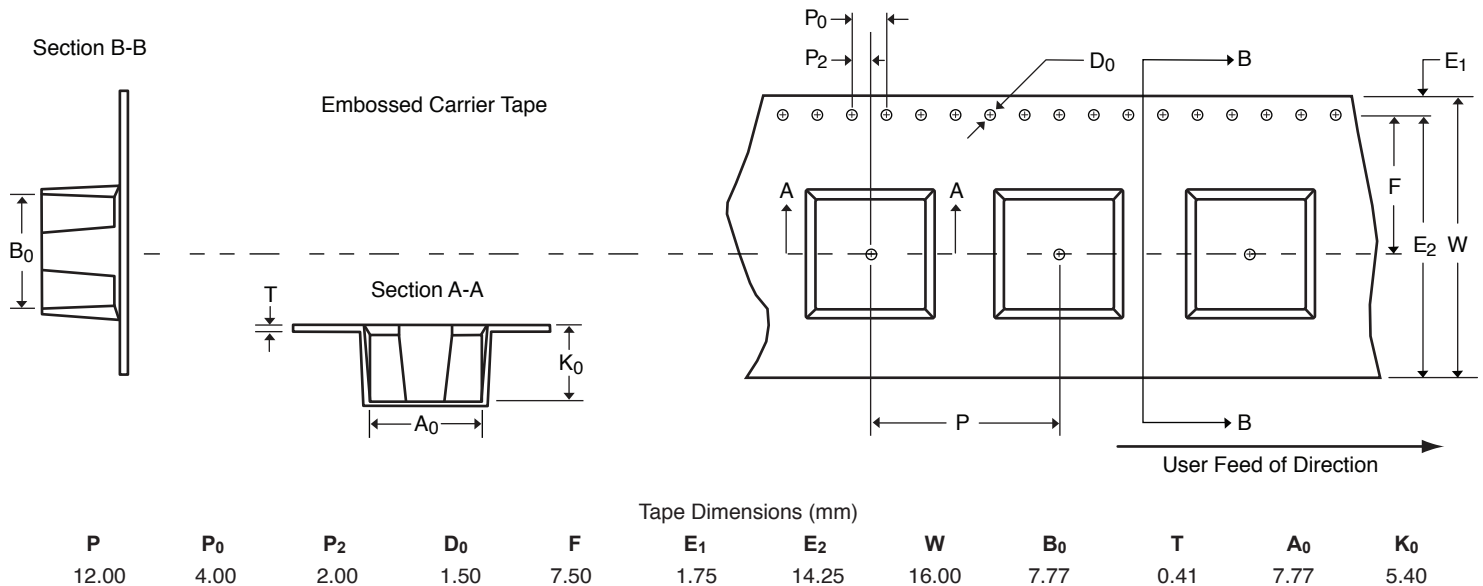
HRSPD74

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: HRSPD74-274M

DELEVAN
270uH
1951

How To Order

HRSPD74

—

274

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

All product specifications and data contained herein are subject to change without notice to improve reliability, function, performance, design or otherwise.
This product may not be used in medical or high risk applications without prior API Delevan consent.

08/25/2020