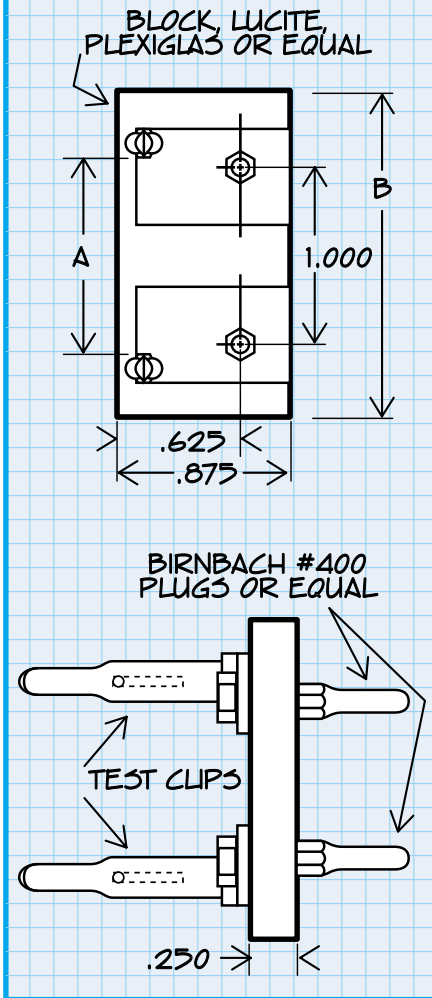


Thru-Hole Inductors

FIGURE 1



TEST FIXTURES: Fixtures such as the axial leaded type shown in Figure 1 are available through special order.

Dimensions:

		Inches	Millimeters
Test Fixture A	"A"	0.938	23.82
Test Fixture A	"B"	2.0	50.80
Test Fixture B	"A"	1.938	49.22
Test Fixture B	"B"	3.0	76.20

Use Test Fixture A when body length is 0.563"/1.43mm or less.
 Use Test Fixture B when body length is greater than 0.563"/1.43mm



TESTING: Standard method for all inductors, unless stated on the series page, is per the criteria of MIL-PRF-15305. Transfer standards are used internally as correlated to the HP4342A Master Meter. This specification is utilized as the basis for all Military Qualified Coils. It is also employed as reference for the standard means on all non-Military parts located in the catalog. It is recommended for low inductances (under 0.10µH), and tight tolerances. In order to establish correlation between API Delevan and your equipment, consult the Sales Department for assistance concerning this important issue. All testing and methods for characterizing the inductive components are as performed by API Delevan. Further information is available for the details of these specific tests. Copies of Government specifications are not available from API Delevan. For additional information contact your local Representative, or the API Delevan Sales Department.

MARKING:

- Military qualified: MIL-PRF-15305E, Amendment 5 allows the use of laser marking at the option of the manufacturer (Paragraph 3.27.4). This is Delevan's standard means of identification. Color Banding is available as an option, but must be identified upon order placement. Suffix the catalog part number with a 'B' to designate this preferred means of identification (see chart on page 145 for code). MIL-PRF-39010 inductors are only available laser printed.
- Non-Military: Standard Catalog parts have examples shown on each page herein. Consult the API Delevan Sales Department for a complete description of the method utilized on the particular series.

PACKAGING: Standard is bulk. Axial parts, as an option, are available with leads Cut & Formed for thru-hole placement. Tape and Reel is also available as an option. See next page for available methods and maximum reel quantity capabilities. Custom labeling and Bar Coding are optionally available, consult the API Delevan Sales Department for your specific needs.

ENVIRONMENTAL CAPABILITIES: API Delevan has the equipment to perform testing for compliance to MIL-STD-202, MIL-STD-981, European Space Agency (ESA), or your specific criteria. Consult our Sales Department for a quotation to the specific requirements necessary for your application.

Thru-Hole Inductors

REEL TAPING SPECIFICATIONS

When requested, axial leaded components can be supplied on tape and reel, per EIA-296. Parts will be supplied on a Class III, Inside Taping Space dimension (See Fig. 2), unless otherwise specified by customer. Table 1, illustrates the relationship between Component Body Diameter, Distance Between Components and the Inside Taping Space (Classes I, II, III) that is used for reel taping.

Example 1: Part Number 1025-12K

Diameter: .095" ± 0.010" (2.41mm ± 0.25mm)

To be taped to Class III (Delevan's Standard Taping Class)

From Table I this part will be taped with an Inside Taping Space of 2.874" (73mm) and a Distance Between Components of 0.200" (5mm). See Figure 2.

Example 2: Part Number 2500-34J

Diameter 0.215" ± 0.010" (5.46mm ± 0.25mm)

To be taped to Class I (Customer Specified)

From Table I this part will be taped with the Inside Taping Space of 2.062" (52.4mm) and a Distance Between Components of 0.400" (10mm). See Figure 2.

Packaging Specifications for Radial Leaded/Variable Devices

Bulk Pack Only Series 2020, 2534, 2727, 3443, 4445, HC, PT, 9405, 9406

Bulk Pack or Ammo Pack Series 4554 & 4564. Standard bulk pack quantity for 4554 & 4564 Series is 100 pieces per box.

NOTE Ammo pack quantity is 1000 pieces max. per package.

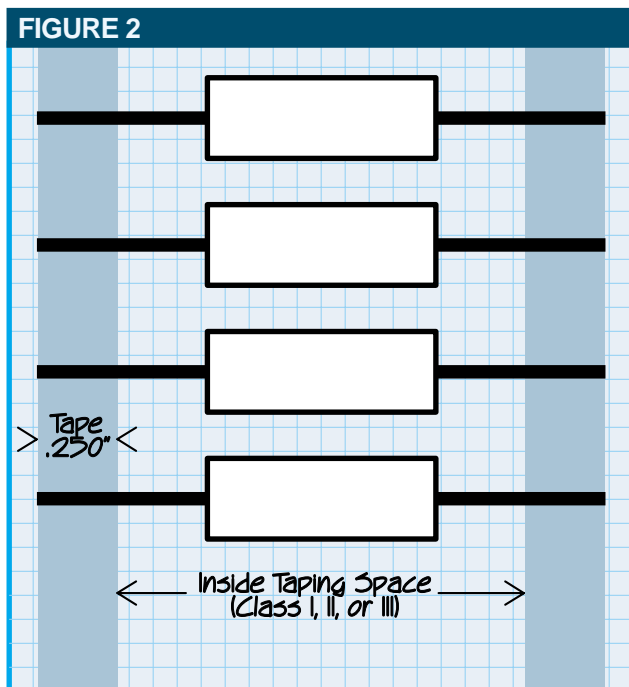


TABLE 1

COMPONENT BODY DIAMETER	DISTANCE BETWEEN COMPONENTS	INSIDE TAPING SPACE		
		I	II	III
INCHES	± 0.020"	± 0.059"		
—				
0.0" to 0.197"	0.200"	2.062"	2.500"	2.874"
0.197" to 0.394"	0.400"	2.062"	2.500"	2.874"
0.394" to 0.591"	0.600"	2.062"	2.500"	2.874"
MILLIMETERS	± 0.5mm	1.5mm		
0mm to 5mm	5mm	52.4mm	63.5mm	73mm
5.01mm to 10mm	10mm	52.4mm	63.5mm	73mm
10.01mm to 15mm	15mm	52.4mm	63.5mm	73mm

Tape & Reel Specifications for Catalog Parts

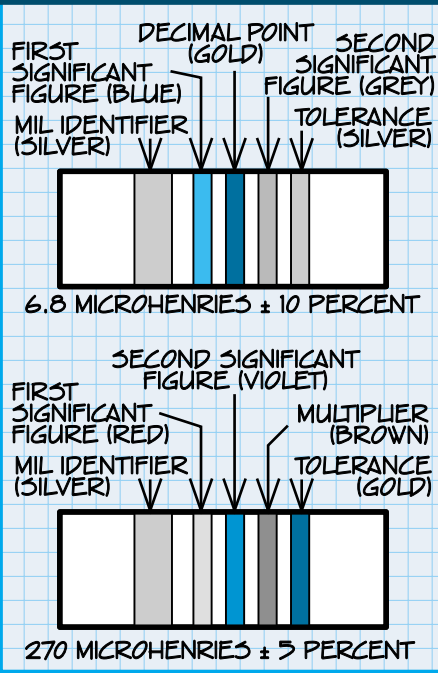
SERIES NUMBER	— MAXIMUM QUANTITY —	
	PER 12" DIAMETER REEL	PER 14" DIAMETER REEL
	511	2500
0819*	3500	6000
0925	3500	6000
1025/1026	3500	6000
1537	2500	4000
1638	2500	4000
1641	2500	4000
1782	3500	6000
1944, 1945	2500	3000
1840	2500	3000
2150	1000	1500
2256	1000	1500
2474	1000	1500
2500 -00 to -28	2500	3000
2500 -30 to -76	1000	1500
2890	800	1300
4211 -1 to -7	Not Avail.	4000
4211 -8 to -11	Not Avail.	1000
4211 -12 to -30	Not Avail.	4000
4212	Bulk Pack Only	
4307	2500	3000
4470	800	1300
ER1025	3500	6000
ER1537	2500	4000
ER1641	2500	4000
ER1840	2500	3000

NOTE: Our Standard Packaging is per EIA-296E, Class III (inside taping space measured at 2.874"). Class I and Class II supplied per request.

* 0819 Series does not comply with EIA-296E for Class III; spacing = 2.700" inside tape.

Thru-Hole Inductors

FIGURE 3



COLOR CODE (non-standard):

A silver band MIL identifier of double the width of the other bands, located near one end of the coil, identifies military radio frequency coils; four other bands of equal width, three indicating the inductance in microhenries and the fourth band indicating the tolerance in percent. When either the first or second band of the three bands is gold, it represents the decimal point for inductance values less than 10µH. The other two bands represent significant figures. For inductance values of 10 or more the first two bands represent significant figures, and the third band shall represent the multiplier. For small units, dots may be used instead of bands. The diameter of the MIL-identifier dot is larger than the other dots. The colors used are in accordance with MIL-STD-174. Typical color coding for units with inductance values less than 10 and for 10 or greater is shown above on figure 3.

TABLE 2 – COLOR CODE

COLOR	SIGNIFICANT FIGURE	MULTIPLIER ¹	INDUCTANCE TOLERANCE
Black	0	1	-
Brown	1	10	+1%
Red	2	100	+2%
Orange	3	1,000	+3%
Yellow	4	-	-
Green	5	-	-
Blue	6	-	-
Violet	7	-	-
Grey	8	-	-
White	9	-	-
None ²	-	-	+20
Silver	-	-	+10
Gold	Decimal Point	-	+5

NOTES: 1) The multiplier is the factor by which the two significant figures are multiplied to yield the nominal inductance value.

2) Indicates body color.

LEAD FORMING:

Optionally, API Delevan can provide configurations for direct, or thru-hole placement. Styles available are shown below in Figure 4.

FIGURE 4

