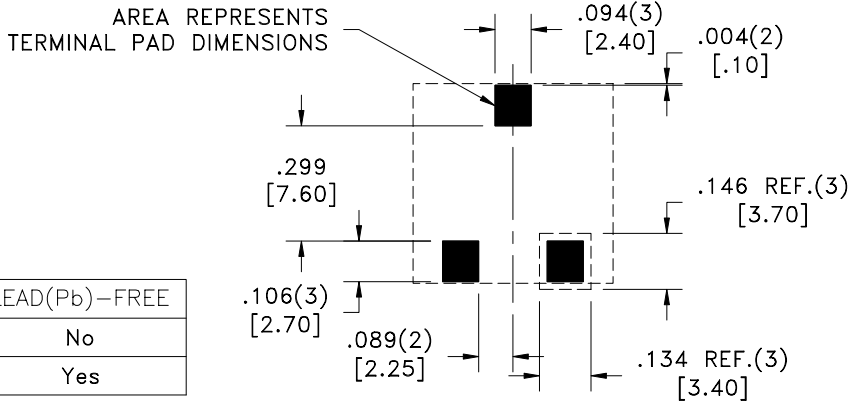
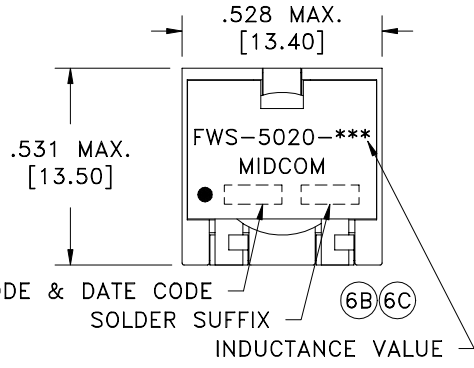
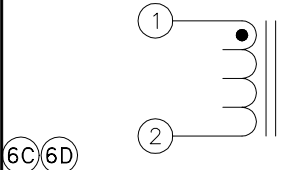


SEE TABLE BELOW



CUSTOMER TO DETERMINE LAND LAYOUT



(6C)(6D)

SOLDER SUFFIX	CUSTOMER TERMINAL	RoHS	LEAD(Pb)-FREE
	Sn100%	No	No
LF3	Sn100%	Yes	Yes

**ELECTRICAL SPECIFICATIONS @ 25°C unless otherwise noted:**

MIDCOM P/N	1> INDUCTANCE uH ±20%	DCR typ. MilliOhms (20°C)	DCR max. MilliOhms (20°C)	2> Isat ADC	3> Lsat ADC	4> Icont ADC	Max. Height
FWS-5020-0R22R/-LF3	0.22						
FWS-5020-0R33R/-LF3	0.33						
FWS-5020-0R47R/-LF3	0.47						
FWS-5020-0R56R/-LF3	0.56						
FWS-5020-0R68R/-LF3	0.68						
FWS-5020-0R82R/-LF3	0.82						
(6C) FWS-5020-1R0R/-LF3	1.00	1.50	1.75	27.25	0.80	17.2	0.245
(6C) FWS-5020-1R0R-A/-LF3	1.00	1.20	1.40	27.4	0.80	18.5	0.260
FWS-5020-2R1R/-LF3	2.10						
(6C) FWS-5020-3R1R/-LF3	3.10	5.28	5.75	19.0	2.48	12.5	0.260 (6B)
FWS-5020-4R2R/-LF3	4.20	4.20	4.65	10.5	3.36	12.25	0.220
FWS-5020-4R6R/-LF3	4.60						
FWS-5020-5R5R/-LF3	5.50						

OPERATING TEMPERATURE RANGE: -40°C to +85°C. Not to exceed +125°C, including temperature rise of the component.

**NOTES:**

- 1> Inductance value at 100kHz, 100mV, 0ADC. Drive level may vary based upon equipment capability.
- 2> Isat is the saturating DC current that will cause the Inductance to drop 20% from the 0ADC Inductance value.
- 3> Lsat is the typical Inductance value when the inductor is subjected to saturation current.
- 4> Icont is the continuous DC current that will cause an approximate temperature rise of 40°C from ambient with the inductor soldered to a 2x2" copper-clad PCB and current applied for 30 minutes in a draft-free environment. The temperature rise in the inductor's end-use application is affected by proximity to heat producing components, PCB trace size, air flow and other heat dissipating methods.

- (6C) 5. Continuous current is either saturation current or heating current (Icont), depending upon which value is lower.
- 6. In high volt\*time applications, additional inductor heating can occur due to core losses which may require current derating in order to limit inductor temperature rise.

**Midcom, Inc.**  
 Watertown, SD USA  
 Toll Free: 800-643-2661  
 Fax: 605-886-4486  
 This drawing is dual dimensioned.  
 Dimensions in brackets are in millimeters.

Unless otherwise specified:  
 Tolerances: Fractions: ±1/64  
 Angles: ±1° Decimals: ±.005 [1.13]  
 DRAWING TITLE  
**INDUCTOR**  
 REVISIONS: SEE SHEET 1

**Midcom**  
 DRAWING NO. (6D) REV. 6D  
**FWS-5020-XXXXR/-LF3** 6/06  
 SCALE --- SHEET 2 OF 6

DWG.# FWS-5020-XXXXR/-LF3