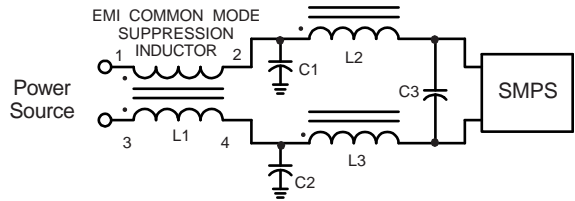


## COMMON MODE INDUCTORS FOR EMI/RFI APPLICATIONS

Common Mode Inductors are most often used to eliminate line transmitted noise, such as that caused by transistors, SCR's, etc., in switch mode regulated power supplies. Interference caused by multiple equipment on a common power line can be minimized by the "split-winding" design, thus reducing the inherent conducted noise to an acceptable level.

- **Maximum operating temperature:** 130 °C.  
(ambient + temperature rise)
- **Dielectric strength:** 1500 Vrms
- **Winding balance:** ±1%



A typical circuit for the elimination of noise is shown above. The filter contains two stages, one for common mode noise (L1, C1 and C2) and one for conducted noise (L2, L3 and C3). Special note should be made of the phasing dots.

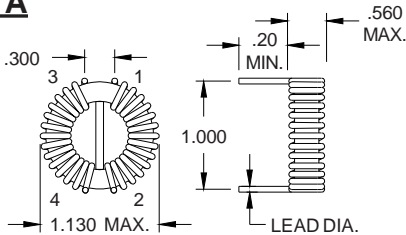
PART NUMBER	"L"† (mH)	DCI ‡ (Amps)	DCR† (Ω) max.	LEAKAGE INDUCTANCE (μH)	TEST** LEVEL (VRMS)	LEAD DIA.
*31G1	1.0	6.0	0.02	12	0.08	0.036
*31G3	3.0	3.5	0.06	35	0.20	0.032
*31G10	10.0	1.8	0.24	130	0.50	0.032

PART NUMBER	"L"† (mH)	DCI ‡ (Amps)	DCR† (Ω) max.	LEAKAGE INDUCTANCE (μH)	TEST** LEVEL (VRMS)	LEAD DIA.
*32K2	2.0	7.5	0.02	25	0.08	0.047
*32K4	4.0	5.2	0.04	45	0.20	0.036
*32K8	8.0	3.2	0.12	90	0.50	0.032
*32K16	16.0	2.6	0.16	180	1.00	0.032

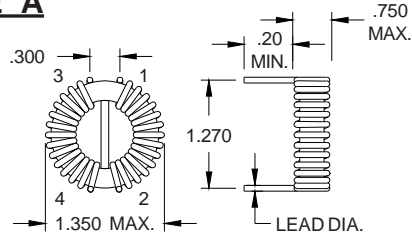
† Inductance and DCR values shown are for each winding  
 Other inductances are available.  
 ‡ DCI is for 40° C temperature rise.  
 \*\* Test level is at 1 kHz.

Dimensions are in inches  
 For LEAD DIA. see tables above

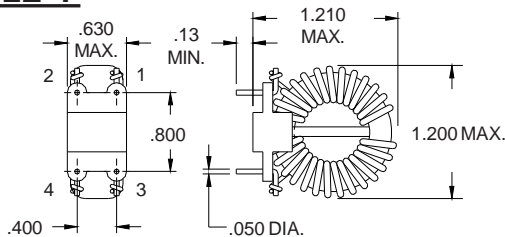
### STYLE A



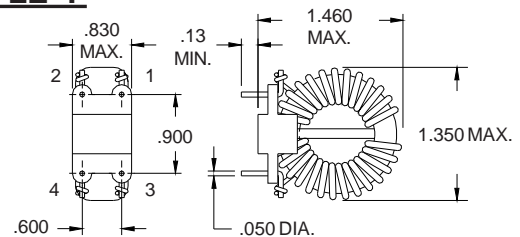
### STYLE A



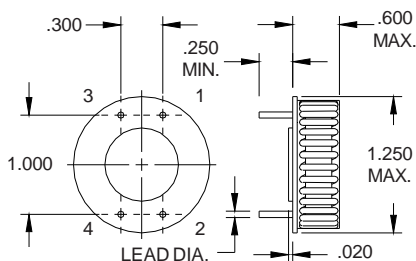
### STYLE F



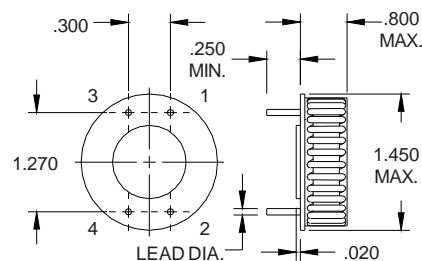
### STYLE F



### STYLE NA, NB



### STYLE NA, NB



STYLE	DESCRIPTION
NA	WITH FOOT
NB	WITHOUT FOOT

These parts may be special ordered with a 4-40UNC X 5 threads min. insert

### PART NUMBER ORDERING INFORMATION

\* Add style prefix (from this page) to part number  
 EXAMPLE: **A 31 G 1**  
 STYLE \_\_\_\_\_ INDUCTANCE (millihenrys)  
 CORE TYPE \_\_\_\_\_ SIZE

