

**SURFACE MOUNT
COMMON MODE POWER INDUCTOR
SERIES KM**

FEATURES

- Low core losses in high frequency applications
- Most suitable for the energy storage and filter inductors used in Switch Mode Power Supplies
- Ideal for in-line noise filters where the inductors must support large AC voltages without core saturation
- Excellent for unidirectional drive applications

APPLICATIONS

- AC Input Filters
- EMI Suppression
- Switching Regulators
- Switching Power Supplies

ELECTRICAL CHARACTERISTICS

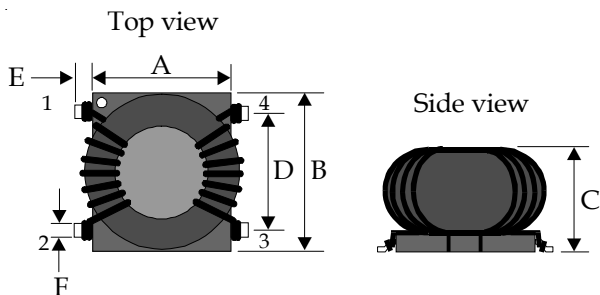
- Inductance range 10 μ H to 250 μ H
- Test frequency 1 KHz
- Test level 100 mVAC
- Test equipment Quadtech 1750 LCR Meter
- Rated current range 0.50 Amps to 2 Amps
- Tolerance $\pm 10\%$ over entire range
- Rated current Based on Lo drops 10% typical
- Percentage difference 0.05% max between 2 output wdg

PHYSICAL CHARACTERISTICS

- Operating temp. -55°C to +125°C
- Frequency application Flat @ 1 MHz
- Safety rating UL94V-0
- Wdg configurations Bifilar or opposing winding
- Finish Coil is bonded to base with epoxy
- Marking White dot designates pin one
- Packaging 100 pieces per bag

DIMENSIONS IN INCHES

- Length A 0.38" $\pm$ 0.02"
- Width B 0.40" $\pm$ 0.02"
- Total coil height C 0.26" $\pm$ 0.03"
- Lead spacing D 0.30" $\pm$ 0.01"
- Lead length E 0.06" $\pm$ 0.01"
- Lead width F 0.06" $\pm$ 0.01"

**SPECIFICATIONS**

Part Number	L each winding (μ H)	DCR max each winding (Ω)	Rated Current each winding (Amps)	Total energy storage (mJ)
KM-2.0A100K	10	0.040	2.0	20
KM-1.0A180K	18	0.150	1.0	10
KM-1.5A200K	20	0.100	1.5	22
KM-1.0A250K	25	0.150	1.0	13
KM-1.0A300K	30	0.175	1.0	15
KM-1.0A400K	40	0.250	1.0	20
KM-1.0A500K	50	0.300	1.0	25
KM-0.75A750K	75	0.325	0.75	22
KM-0.75A820K	82	0.350	0.75	23
KM-0.50A101K	100	0.400	0.50	13
KM-0.50A121K	120	0.450	0.50	15
KM-0.50A151K	150	0.475	0.50	19
KM-0.50A181K	180	0.500	0.50	23
KM-0.50A201K	200	0.600	0.50	25
KM-0.25A251K	250	0.700	0.50	08

SUGGESTED LAND PATTERN