



# SURFACE MOUNT INDUCTORS

## FIXED-VALUE CHIP COILS TO 1mH - CM4 SERIES

Available on tape and reel for auto-insertion, Stetron's CM4 series offers an inductance range from 0.1 microhenries to 1 millihenry in 49 discrete values. Current ratings (DC) are from 480 milliamps at 0.1  $\mu$ H to 30 mA at 1mH.

Nominal inductance values are standard EIA sizes. Tolerance on inductance is 20% for the lower values; 10% for the higher.

### APPLICATIONS

Stetron's surface mount inductors are for all general purpose SMT circuitry, and are rated to carry significant DC. Uses include choke filters, harmonic and RF suppression, and resonant circuitry where precision inductance is not a prerequisite.

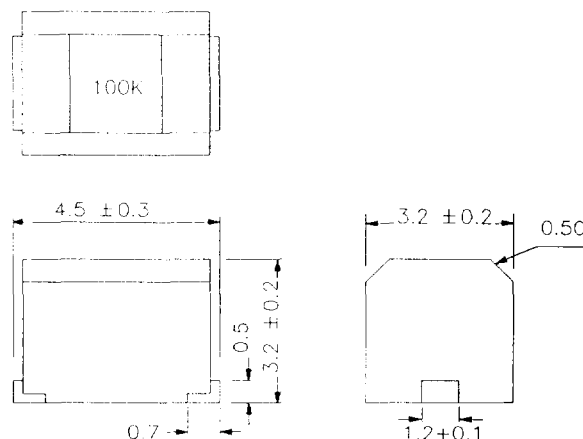
### SPECIFICATIONS

Inductance range	0.1 $\mu$ H to 1 mH
Tolerance	+20%, +10% (inductance dependent)
Temp. Range	-25°C to +85°C
Solderability withstand	260°C for 10 seconds (max inductance change of 20%)
Overload test	2 x rated DC for 5 minutes
Tensile strength	1 kg load for 1 minute
Dielectric strength	1000 VAC (terminal to case)
Insulation resistance	1000 Megohm min. (terminal to case)
Solvent resistance	MIL STD 202F, method 215D
Shock test	10 times, 1 m, to 3 cm board. (Inductance change 5% max)

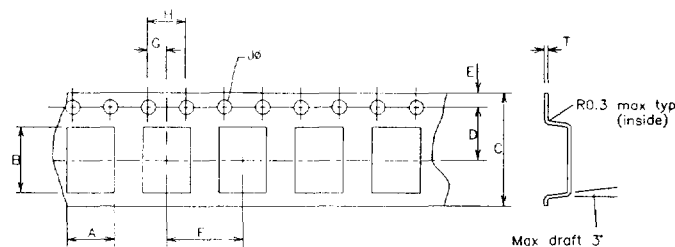
### PART NUMBER

Specify CM453232 followed by inductance (in  $\mu$ H)  
e.g. CM453232-R10M (0.1  $\mu$ H); CM453232-1R8 (1.8  $\mu$ H);  
CM453232-100 (10  $\mu$ H); CM453232 101 (100  $\mu$ H)

Dimensions in mm



### TAPE AND REEL DIMENSION



Tape	A	B	C	D	E	F	G	H	J	K	T
12mm	4.0~ 7.0 ± 0.1	4.0~ 7.5 ± 0.1	12.0 ± 0.2	5.65 ± 0.05	1.5 ± 0.1	8.0 ± 0.1	2.0 ± 0.1	4.0 ± 0.1	Ø1.5 +0.1 -0	1.0~ 4.0 ± 0.1	Less 0.4 ± 0.1

### CM SERIES

Forty nine discrete values from 0.1  $\mu$ H to 1 mH  
Current ratings (DC) 480 mA to 30 mA (0.1 to 1 mH)  
Self resonant frequency 600 MHz to 3 MHz (1 mH)  
DC resistance 0.25 ohm to 50 ohms (1 mH)



**Stetron  
International  
Inc.**

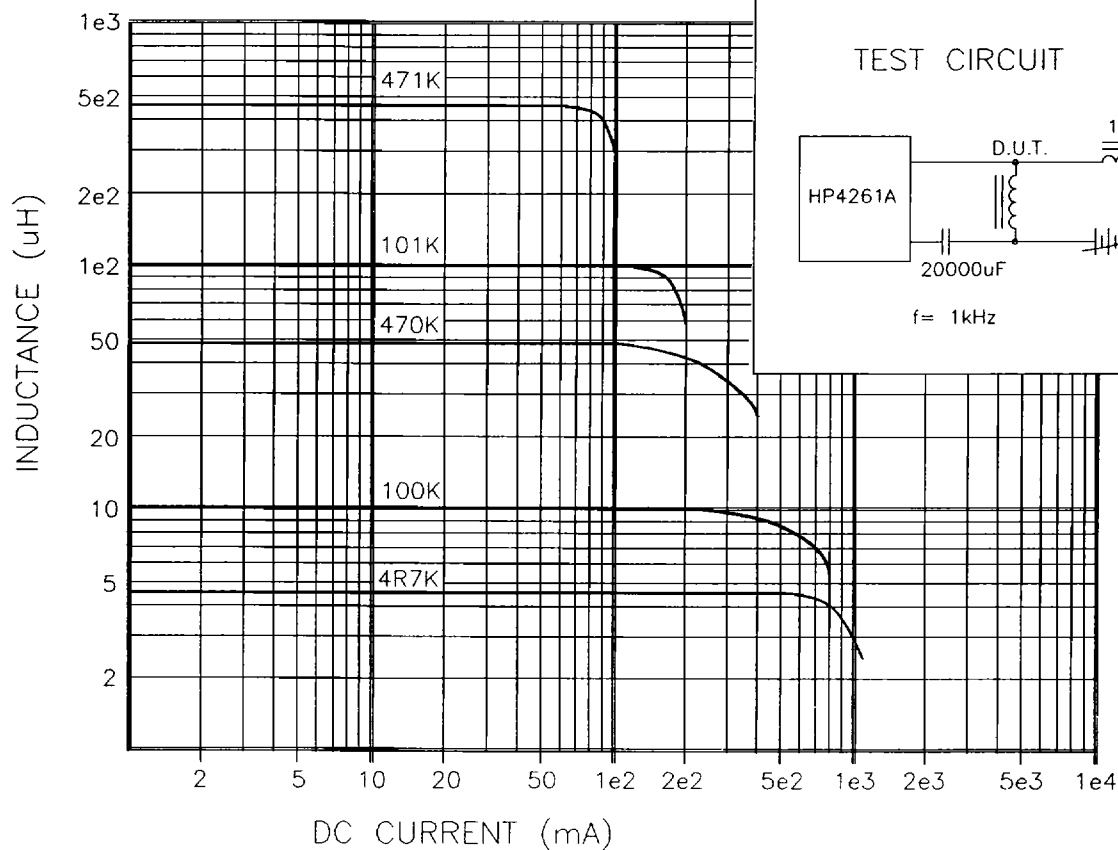
**Buffalo**  
90 Broadway  
Buffalo, N.Y.  
U.S.A 14203  
Tel: (716) 854-3443  
Fax: (716) 854-3448

**Toronto**  
2651 John St. Unit 5  
Markham, Ont  
Canada L3R 2W5  
Tel: (905) 475-6202  
Fax: (905) 475-1926

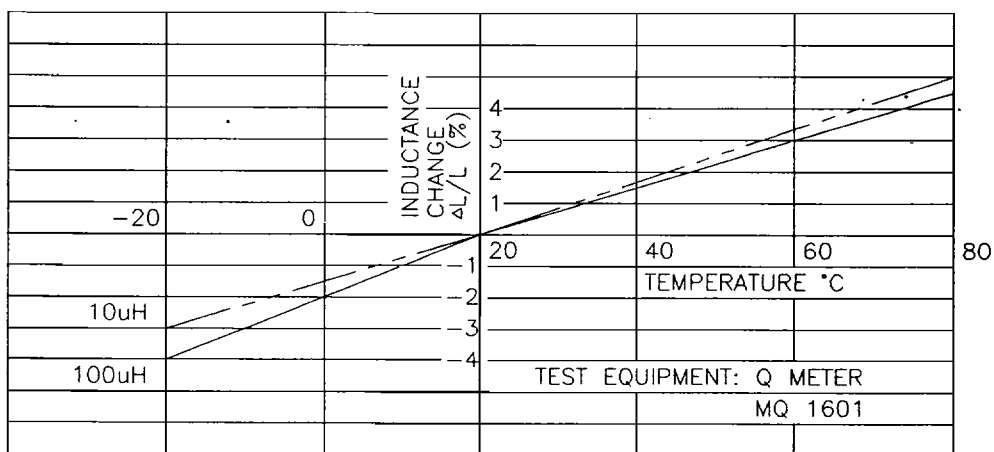
**Seoul**  
Dongyang Building 3F  
39-7, Dongja-Dong, Yongsan-Ku  
Seoul 140-170, Korea  
Tel: (822) 774-6388  
Fax: (822) 778-9859

# CHARACTERISTIC CURVE

INDUCTANCE vs. DC SUPERPOSITION RESPONSE



## INDUCTANCE CHANGE vs TEMPERATURE RESPONSE



THE INFORMATION CONTAINED IN THIS LITERATURE HAS BEEN CAREFULLY REVIEWED AND IS BELIEVED TO BE ACCURATE, HOWEVER, DUE TO THE POSSIBILITY OF UNSEEN INACCURACIES NO RESPONSIBILITY IS ASSUMED.