

# TYPE "C" & "X"

# TEPRO



## ULTRA PRECISION METAL FILM RESISTORS AXIAL LEAD

### FEATURES:

- High power ultra - precision resistors to .3W
- Temperature coefficients to  $\pm 1$ ppm
- Tolerances to  $\pm 0.005\%$
- Improved stability  $\pm 25$ ppm/year
- TC tracking to 1ppm available



DIMENSIONS	TEPRO TYPE	RESISTANCE RANGE	POWER (@ 125°C)	DIMENSIONS INCHES (Max.) Unless otherwise specified. (Metric dimensions in Parenthesis)
	X - 100	1 $\Omega$ to 5 MEG	.300 Watts	W = .140 (3.56) L = .325 (8.26) H = .375 (9.53)
 Conformally coated or molded	C - 200	1 $\Omega$ to 250K Over 250K Consult Factory	.125 Watts	L = .250 $\pm$ (6.35 $\pm$ .25) Max. D = .125 (3.18)
 Conformally coated or molded	C - 202	1 $\Omega$ to 1 MEG Over 1 MEG Consult Factory	.25 Watts	L = .500 $\pm$ .01 (12.70 $\pm$ .25) D = .250 $\pm$ .01 (6.35 $\pm$ .25)

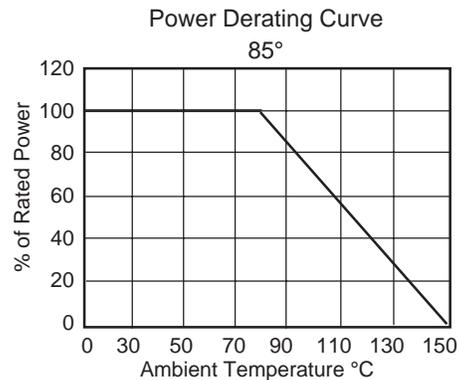
Lead material: Tinned copper, Lead length: 1" (min.) std., Lead dia.: 0.025"

### PERFORMANCE DATA:

- Long term stability: 25ppm/year
- Temperature coefficient: 1ppm/°C to 10ppm/°C
- Temperature coefficient track: To 0.5ppm/°C
- Tolerance: 0.005 to 1.0%
- Tolerance match: To 0.005%
- Inductance: Less than 0.05  $\mu$ h
- Capacitance: Less than 0.5 pf
- Rise time: Less than 1ns
- Voltage coefficient: Less than 2ppm/volt
- Thermoelectric effect: Less than 0.1 $\mu$  V/°C
- Noise factor: Below -30db

### DERATING:

Type C&X resistors have an operating temperature range of -55°C to 150°C and must be derated as follows.



### HOW TO ORDER:

Sample Part No: X-100 - 1 - 91k - 0.02%

Teepro Type \_\_\_\_\_  
 Temperature Coefficient (ppm) \_\_\_\_\_  
 Resistance Value \_\_\_\_\_  
 Tolerance Range \_\_\_\_\_  
 $\pm 1\%$ ,  $\pm .5\%$ ,  $\pm .25\%$ ,  $\pm .1\%$   
 $\pm .05\%$ ,  $\pm .02\%$ ,  $\pm .01\%$ ,  $\pm .005\%$