

Sensors
Limit temperature sensors, EIA sizes 0603 and 0805
Standard series
Electrical specifications and ordering codes
Case size 0603 and 0805

R_R ($V \leq V_{max}$) Ω	ΔR_R %	T_{sense} $^{\circ}C$	R ($T_{sense,1} - 5^{\circ}C$) k Ω	R ($T_{sense,1} + 5^{\circ}C$) k Ω	R ($T_{sense,1} + 15^{\circ}C$) k Ω	Ordering code
EIA case size 0603, high ohmic types						
10000	± 50	120	≤ 4700	≥ 4700	-	B59604A0085A062
10000	± 50	130	≤ 4700	≥ 4700	-	B59604A0090A062
EIA case size 0603, tight resistance tolerance types						
110	± 15	70	≤ 1.1	≥ 1.1	-	B59602A0055B062
470	± 15	55	≤ 4.7	≥ 4.7	-	B59603A0055A062
470	± 15	85	≤ 4.7	≥ 4.7	-	B59603A0085A062
470	± 15	105	≤ 4.7	≥ 4.7	-	B59603A0105A062
EIA case size 0805, standard types						
680	± 50	70	≤ 5.7	≥ 5.7	$\geq 40^{1)}$	B59701A0070A062
680	± 50	90	≤ 5.5	≥ 13.3	≥ 40	B59701A0090A062
680	± 50	100	≤ 5.5	≥ 13.3	≥ 40	B59701A0100A062
680	± 50	110	≤ 5.5	≥ 13.3	≥ 40	B59701A0110A062
680	± 50	120	≤ 5.5	≥ 13.3	≥ 40	B59701A0120A062
680	± 50	130	≤ 5.5	≥ 13.3	≥ 40	B59701A0130A062
680	± 50	140	≤ 5.5	≥ 13.3	≥ 40	B59701A0140A062

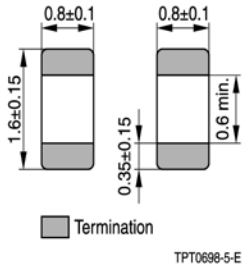
Note:

In order to limit self heating effects the electrical power during measurement should be below 4 mW for case size 0603 and below 6 mW for case size 0805.

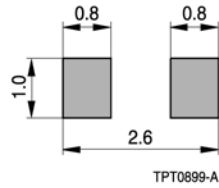
1) R ($T_{sense,1} + 25^{\circ}C$)

Dimensional drawings in mm

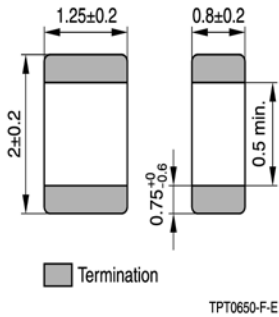
EIA case size 0603



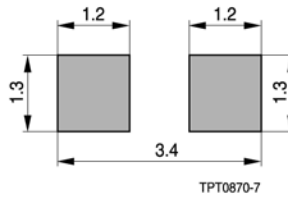
Solder pad



EIA case size 0805



Solder pad



Recommended maximum dimensions (mm)

Characteristics (typical) for type A701

PTC resistance R_{PTC} versus PTC temperature T_{PTC}
(measured at low signal voltage)

