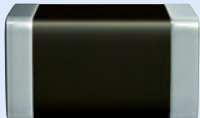
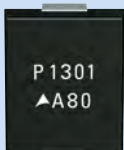
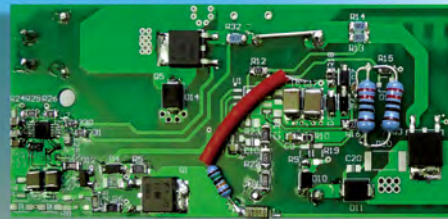
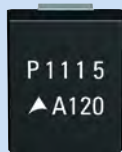


EPCOS Sample Kit 2013

# SMD PTC Thermistors

for Overcurrent Protection

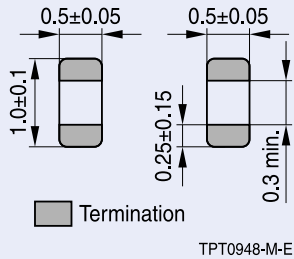


# Features of SMD PTC thermistors

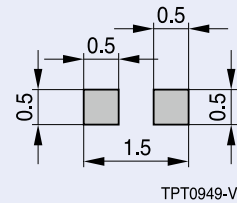
- Qualification based on AEC-Q200 Rev-D for selected types. See table "Product range".
- Suitable for reflow (all types) and wave soldering (EIA case sizes 3225 and 4032 only)
- Lead-free tinned terminations
- RoHS-compatible
- Tolerance of  $R_T \pm 25\%$  (except B59907A\*:  $\pm 35\%$ )

## Dimensional drawings in mm

### EIA case size 0402

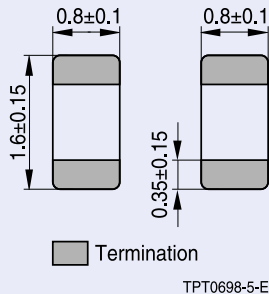


### Solder pad

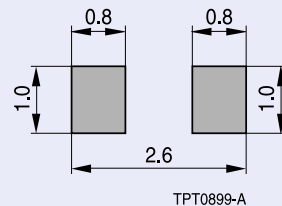


Recommended maximum dimensions

### EIA case size 0603



### Solder pad



Recommended maximum dimensions

# Components

<b>A606</b> 30 V, 90 mA	<b>A607</b> 30 V, 70 mA	<b>A407</b> 32 V, 13 mA	<b>A622</b> 60 V, 22 mA	<b>A623</b> 80 V, 15 mA	<b>A707</b> 80 V, 50 mA	<b>A807</b> 265 V, 15 mA	<b>A907</b> 400 V, 12 mA	
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<b>P1301</b> 30 V, 205 mA	<b>P1201</b> 30 V, 165 mA	<b>P1101</b> 30 V, 90 mA	<b>P1301</b> 30 V, 310 mA	<b>P1201</b> 30 V, 265 mA	<b>P1101</b> 30 V, 170 mA
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<b>P1315</b> 80 V, 80 mA	<b>P1215</b> 80 V, 65 mA	<b>P1115</b> 80 V, 40 mA	<b>P1315</b> 80 V, 150 mA	<b>P1215</b> 80 V, 100 mA	<b>P1115</b> 80 V, 70 mA
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## Electrical specifications and ordering codes

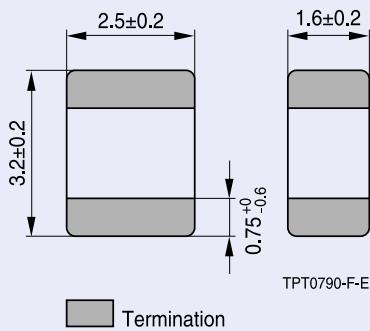
EIA case size	Type	$I_R$ [mA]	$I_S$ [mA]	$I_{Smax}$ ( $V = V_{max}$ ) [A]	$R_R$ [Ω]	$R_{min}$ [Ω]	AEC-Q200 <sup>1)</sup>	Ordering code
<b><math>V_{max} = 30\text{ V DC or V AC}, V_R = 24\text{ V DC or V AC}</math></b>								
1210	A606	90	180	0.50	27	17	–	B59606A0110A062
1210	A607	70	130	0.40	55	30	–	B59607A0120A062
<b><math>V_{max} = 32\text{ V DC or V AC}, V_R = 24\text{ V DC or V AC}</math></b>								
0402	A407	13	32	0.12	470	265	✓	B59407A0115A062
<b><math>V_{max} = 60\text{ V DC or V AC}, V_R = 42\text{ V DC or V AC}</math></b>								
0603	A622	22	47	0.22	220	150	–	B59622A0090A062
<b><math>V_{max} = 80\text{ V DC or V AC}, V_R = 63\text{ V DC or V AC}</math></b>								
0603	A623	15	33	0.15	470	300	–	B59623A0090A062
1210	A707	50	90	0.30	125	75	–	B59707A0120A062
<b><math>V_{max} = 265\text{ V DC or V AC}, V_R = 230\text{ V DC or V AC}</math></b>								
1210	A807	15	40	0.20	400	200	–	B59807A0090A062
<b><math>V_{max} = 400\text{ V DC or V AC}, V_R = 230\text{ V DC or V AC}</math></b>								
1210	A907	12	22	0.15	1500	640	✓	B59907A0120A062
<b><math>V_{max} = 30\text{ V DC or V AC}, V_R = 24\text{ V DC or V AC}</math></b>								
4032	P1301	205	420	1.60	3.1	1.85	✓	B59301P1080A062
3225	P1201	165	340	1.00	4.6	2.70	✓	B59201P1080A062
3225	P1101	90	185	0.70	13.0	7.80	✓	B59101P1080A062
4032	P1301	310	640	1.60	3.1	1.85	✓	B59301P1120A062
3225	P1201	265	545	1.00	4.6	2.70	✓	B59201P1120A062
3225	P1101	170	355	0.70	13.0	7.80	✓	B59101P1120A062
<b><math>V_{max} = 80\text{ V DC or V AC}, V_R = 63\text{ V DC or V AC}</math></b>								
4032	P1315	80	165	1.60	16.0	9.60	✓	B59315P1080A062
3225	P1215	65	135	1.00	25.0	15.00	✓	B59215P1080A062
3225	P1115	40	85	0.70	55.0	32.20	✓	B59115P1080A062
4032	P1315	150	310	1.60	16.0	9.60	✓	B59315P1120A062
3225	P1215	100	210	1.00	25.0	15.00	✓	B59215P1120A062
3225	P1115	70	145	0.70	55.0	32.20	✓	B59115P1120A062

<sup>1)</sup> Qualification based on AEC-Q200 Rev-D.

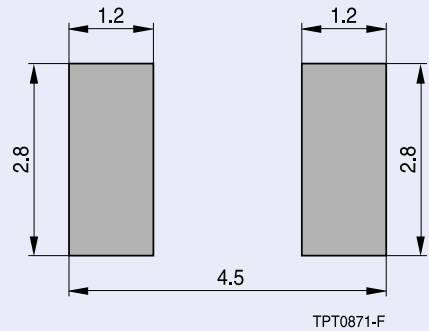
**Important information:** Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products. We expressly point out that these statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. This publication is only a brief product survey which may be changed from time to time. Our products are described in detail in our data sheets. The *Important notes* ([www.epcos.com/ImportantNotes](http://www.epcos.com/ImportantNotes)) and the product-specific *Cautions and warnings* must be observed. All relevant information is available through our sales offices.

## Dimensional drawings in mm

### EIA case size 1210

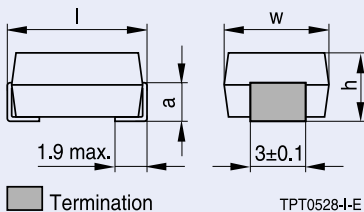


### Solder pad



Recommended maximum dimensions

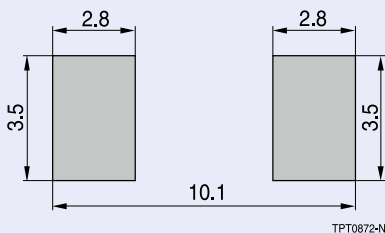
### EIA case sizes 3225 and 4032



Case size	$h \pm 0.5$	$w \pm 0.5$	$l \pm 0.5$	$a \pm 0.3$
3225	3.3	6.3	8.0	1.7
4032	3.3	8.0	10.0	2.3

### Solder pads

#### EIA case size 3225



Recommended maximum dimensions

#### EIA case size 4032

