

### Pulse proof series - Automotive variant

Type: ADI / ALI

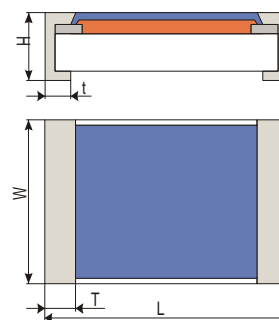
Sizes: 0402, 0603, 0805, 1206, 1210, 1218, 2010, 2512

#### Characteristics:

- Chip resistors in thick film technology
- Specially pulse proof resistor layers
- Resistance area coated with glass and varnish passivation
- High stability and reliability
- AEC Q200 qualified
- RoHS-conform
- Customer specific barcodes available - also in 2D
- All sizes can be manufactured with the following contact variants
  - ⇒ Electroplated alloy resistant tinned

#### Dimensions (in mm):

Size	L Length		W Width		H Depth		t Contact back		T Contact front	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
0402	0,95	1,10	0,45	0,60	0,25	0,40	0,10	0,35	0,05	0,35
0603	1,50	1,70	0,75	0,95	0,35	0,55	0,10	0,50	0,10	0,50
0805	1,85	2,15	1,10	1,40	0,35	0,65	0,15	0,60	0,15	0,60
1206	2,90	3,35	1,45	1,75	0,35	0,65	0,25	0,75	0,15	0,75
1210	3,00	3,30	2,35	2,65	0,50	0,75	0,35	0,85	0,25	0,85
1218	3,00	3,30	4,50	4,80	0,50	0,75	0,35	0,85	0,25	0,85
2010	4,80	5,20	2,30	2,70	0,50	0,75	0,35	0,85	0,25	0,85
2512	6,10	6,50	3,00	3,30	0,50	0,75	0,35	0,85	0,25	0,85



#### Packaging units:

Reel Ø	Card tape acc. EN 60286-3	Blister tape
180 mm	5 T pcs. 10 T pcs. for size 0402	4 T pcs.
330 mm	10 T pcs. 20 T pcs.	8 T pcs. 16 T pcs.
Samples possible up to 50 pcs./value		

#### Ordering information:

ALI	- N	1210	10k	5%	50ppm/K	N	P	10 (optional)
Type	Contact	Size	R- Value	± Tolerance	± TCR	Marking	Packaging	pcs. / Reel (T pcs.)
ADI ALI	Standard (without add.)	0402 to 2512	1R to 10M	5 10 20	50 100	N- only without	P- Card tape B- Blister tape S- Bulk	Depends on size and packaging unit

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**Technical data – depending on size:**

Size	Nominal voltage $U_{max}$ (V)	Load $P_{70}$ (W)	R-Range	R-Tolerance (± %)	TCR (± ppm/K)	Packaging		
						P	B	S
<b>ADI</b>								
0402	50	0,063	1R - 10M	5 / 10 / 20	50 / 100	x		x
0603	75	0,100	1R - 10M	5 / 10 / 20	50 / 100	x		x
0805	150	0,125	1R - 10M	5 / 10 / 20	50 / 100	x		x
1206	200	0,250	1R - 10M	5 / 10 / 20	50 / 100	x		x
<b>ALI</b>								
1210	200	0,330	1R - 10M	5 / 10 / 20	50 / 100	x		x
1218	200	1,000	1R - 10M	5 / 10 / 20	50 / 100		x	x
2010	300	0,500	1R - 10M	5 / 10 / 20	50 / 100		x	x
2512	500	1,000	1R - 10M	5 / 10 / 20	50 / 100		x	x

**Technical data - general:**

Technical data	
Operating temperature range	-55°C ... +155°C
Climatic category acc. EN 60068	55 / 155 / 56
Solderability acc. EN 60068-2-58	245°C 3s
Soldering heat resistance acc. EN 60068-2-58	±( 0,5% + 0,05R ) at 260°C 10s
<b>Long time stability</b>	
Storage 155°C / 1000h	±( 1,0% + 0,05R )
Endurance $P_{70}$ / 70°C / 1000h	±( 0,5% + 0,05R )
Damp heat, steady state (56d / 40°C / 96%)	± ( 1,0% + 0,05R )
Biased humidity (1000h / 85°C / 85%)	± (2% +0,05R)

Data, unless specified, acc. EN 140401-802.

### Behavior of pulse proof chip resistors (ADI / ALI ) under pulse load:

