

### Thin film series - Automotive variant

**Type: AMF**

**Sizes: 0603, 0805, 1206**

#### Characteristics:

- Chip resistors in thin film technology
- High-precision resistor layers
- Resistance area coated with surface passivation
- AEC Q200 qualified
- Very tight tolerances ( $\geq 0,05\%$ ) - low temperature coefficient ( $\geq 10\text{ppm/K}$ )
- Low current noise, good pulse strength
- R-Value-Matching available
- RoHS-conform
- Sulfur resistance verified according to ASTM B 809
- Order quantities from 1000 pieces for <1% and <TCR 50 available by extra charge
- Customer specific barcodes available - also in 2D
- All sizes can be manufactured with the following contact variants
  - ⇒ Electroplated pure tin

#### 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
<b>0603</b>	1,50	1,70	0,75	0,95	0,35	0,55	0,10	0,50	0,10	0,50
<b>0805</b>	1,85	2,15	1,10	1,40	0,35	0,65	0,15	0,60	0,15	0,60
<b>1206</b>	2,90	3,35	1,45	1,75	0,35	0,65	0,25	0,75	0,15	0,75

#### Packaging units:

Reel Ø	Card tape acc. EN 60286-3
<b>180 mm</b>	5 T pcs.
<b>330 mm</b>	10 T pcs. 20 T pcs.
Samples on request	

#### Ordering information:

AMF		0603	10k	0,1%	10ppm/K	K	P	5 (optional)
Type	Contact	Size	R-Value	± Tolerance	± TCR	Marking	Packaging	pcs. / Reel (T pcs.)
AMF	Standard (without add.)	0603 . to . 1206	100R . to . 180k	0,05 0,1 0,25 0,5 1	10 15 25 50	K- with N- without	P- Card tape S- Bulk	Depends on size and packaging unit

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**Technical data – depending on size:**

Size	U <sub>max</sub> (V)	P <sub>70</sub> (W)	R-Range	R-Tolerance (± %)	TCR (± ppm/K)	Packaging		
						P	B	S
0603	75	0,100	100R – 56k	0,05 / 0,1 / 0,25 / 0,5 / 1	10	x		x
					15	x		x
					25	x		x
					50	x		x
0805	150	0,125	100R – 130k	0,05 / 0,1 / 0,25 / 0,5 / 1	10	x		x
					15	x		x
					25	x		x
					50	x		x
1206	200	0,250	100R – 180k	0,05 / 0,1 / 0,25 / 0,5 / 1	10	x		x
					15	x		x
					25	x		x
					50	x		x

**Technical data - general:**

<b>Technical data</b>	Automotive variant
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	± (0,05% +0,01R) at 260°C 10s
<b>Long time stability</b>	
Storage 155°C / 1000 h	± (0,25% +0,05R)
Endurance P <sub>70</sub> / 70°C / 1000 h	± (0,25% +0,05R)
Biased humidity (1000h / 85°C / 85%)	± (0,5% +0,05R)

Data, unless specified, acc. EN 140401-801.