

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 ($\geq 0,1\%$) - low temperature coefficient ($\geq 10\text{ppm/K}$)
- Low current noise, good pulse strength
- R-Value-Matching available
- RoHS-conform and Halogen-free according to IEC 61249-2-21 / IPC 4101B
- Sulfur resistance verified according to ASTM B 809
- Order quantities from 1000 pieces for $<1\%$ and $<\text{TCR } 50$ 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
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

Packaging units:

Reel Ø	Card tape acc. EN 60286-3
180 mm	5 T pcs.
330 mm	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	0,1 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 _{max} (V)	P ₇₀ (W)	R-Range	R-Tolerance (± %)	TCR (± ppm/K)	Packaging		
						P	B	S
0603	75	0,100	100R – 56k	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	0,1 / 0,25 / 0,5 / 1	10	x		x
					15	x		x
					25	x		x
					50	x		x
1206	200	0,250	100R – 180k	0,1 / 0,25 / 0,5 / 1	10	x		x
					15	x		x
					25	x		x
					50	x		x

Technical data - general:

Technical data	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
Long time stability	
Storage 155°C / 1000 h	± (0,25% +0,05R)
Endurance P ₇₀ / 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.