

Thick film series - Standard

Type: CDF

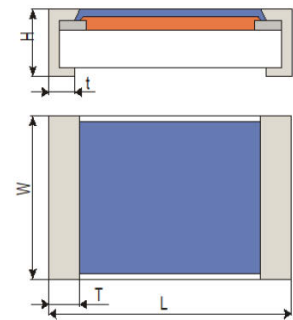
Sizes: 0402, 0603, 0805, 1206

Characteristics:

- Chip resistors in thick film technology
- Resistance area coated with glass and varnish passivation
- High stability and reliability
- Tight tolerances ($\geq 0,5\%$) – low temperature coefficient
- RoHS-conform and Halogen-free according to IEC 61249-2-21 / IPC 4101B
- Customer specific barcodes available - also in 2D
- All sizes can be manufactured with the following contact variants
 - ⇒ Electroplated pure tin
 - ⇒ Contact with low rest permeability -N, suitable only for reflow soldering method (The recommended storage time should not exceed 1 year after date code)
 - ⇒ Epoxy bondable contact -K
 - ⇒ Special corrosive gas resistant contact -S, Sulfur resistance verified according to ASTM B 809

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	1,05	0,45	0,55	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



Packaging units:

Reel Ø	Card tape acc. EN 60286-3
180 mm	5 T pcs.
	10 T pcs. for size 0402
330 mm	10 T pcs.
	20 T pcs.
Samples on request	

Ordering information:

CDF	- N	0603	10k	1%	50ppm/K	K	P	5 (optional)
Type	Contact	Size	R- Value	± Tolerance	± TCR	Marking	Packaging	pcs. / Reel (T pcs.)
CDF	Standard (without add.) -N (non magnetic) -K (epoxy bondable) -S (corrosive gas resistant)	0402 0603 0805 1206	1R . to . 10M	0,5 . 1,0	50 . 100	K- with (from size 0603) N- without (only size 0402)	P- Card 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
0402	50	0,063	1R - 10M	1,0	50 / 100	x		x
0603	75	0,100	1R - 10M	0,5 / 1,0	50 / 100	x		x
0805	150	0,125	1R - 10M	0,5 / 1,0	50 / 100	x		x
1206	200	0,250	1R - 10M	0,5 / 1,0	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
Long time stability	
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 / 93%)	± (1,0% + 0,05R)

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