WCR Series



Marking

All resistors are individually marked with 3 digits. The first two digits are the significant figures and the third defines the number of added zeros. Jumpers are marked 000. Types 0201 and 0402 have no marking.

E96 1% components that can not be marked with 4 digits will be marked with a standard 3 digit code. Details can be supplied upon request.

Solvent Resistance

The protective epoxy lacquer and marking are resistant to all normal industrial cleaning fluids suitable for printed circuits.

Table 1

Resistance value ohms	Noise dB
≤100R	-10
>100R, ≤10K	0
>10K, ≤100K	+15
>100K, ≤1M0	+20
>1M0	+30

Performance Data

		Maximum Change							
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	0201	0402	0603	0805	1206	1210	2010	2512
Load: 1000 hrs at 70°C	∆R%	10R-100K : 1 >100K : 2	4R7-100K:1 >100K:2	1R-100K : 1 >100K : 2	1R-100K:1 >100K:2	1R-100K:1 >100K:2	1R-100K : 1 >100K : 2	1R-100K:1 >100K:2	3% + 0.1R
Shelf life: 12 months at room temp.	Δ R%	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Derate linearly to zero from 70°C		zero @ 155 °C							
Short term overload (6.25 x rated power)		2	2	2.5	2.5	2.5	2.5	2.5	5
Max voltage	volts	50	100	100	200	400	400	400	400
Climatic	Δ R%	3	3	3	3	3	3	3	3
Climatic Catagory		55/125/56							
Long term damp heat					1				
Temperature rapid change	Δ R%	1	1	1	1	1	1	1	1
Resistance to solder heat	Δ R%	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Vibration and bump	∆R%	1	1	1	1	1	1	1	1
Noise		see table 1							
Insulation resistance	ohms	> 1G							
Voltage proof	volts		100	300	500	500	500	500	500

Packaging

All chips in 1210 size and smaller are tape mounted and supplied on standard 8mm paper tape, 2010 size on 12mm paper tape or plastic tape, and 2512 size on 12mm plastic tape reel, as IEC publication 286-3.

180mm (7 inch) reel is standard

250mm (10 inch) reel carrying double the standard quantity

can be supplied by agreement.

General Note

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BI Technologies IRC Welwyn

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WCR Series

Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: WCR1206-10KFI (1206, 10 kilohms ±1%, Pb-free)

W C R 1 2 0 6 - 1 0 K F I 1 2 3 4 5											
1	1 2 3 4 5										
Туре	Size	Value ¹	Tolerance ¹	Grade /	Packing						
WCR	0201	E24 = 3 characters	F = ±1%	I = Standard							
	0402	E96 = 4 characters		A = AEC-Q200 grade ²							
	0603	R = ohms		Both grades use standard							
	0805	K = kilohms		packing as follows:							
	1206	M = megohms		0201	20000/reel						
	1210		-	0402	10000/reel						
	2010			0603, 0805,	5000/reel						
	2512			1206, 1210	5000/1661						
				2010, 2512	4000/reel						

Note 1: For zero ohm jumper chips use the dummy value & tolerance code **R005J** Note 2: AEC-Q200 grade on resistor chips is not available in 0201 size.

USA (IRC) Part Number: WCR-WCR1206LF-1002-F-P-LT (1206, 10 kilohms ±1%, Pb-free)

WCR-	WCR	1 2 0 6	LF	-	1 0 0 2	- F -	P - L T
1	2	3	4		5	6	7

	1	3	4	5	6	7	
Family	Model	Size	Termination	Value	Tolerance	Packing	
WCR	WCR	0201	LF = Pb-free	3 digits + multiplier	F = ±1%	P-LT= Pa	per Tape
		0402		R = ohms for values		0201	20000/reel
		0603		<100 ohms		0402	10000/reel
		0805				0603, 0805,	5000/reel
		1206				1206, 1210	0000/1001
		1210				2010	4000/reel
		2010	E-LT		E-LT = Pla	astic Tape	
		2512				2512	4000/reel

Note: For zero ohm jumper chips use value & tolerance code R000J

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