

## Product Update Memo

### CHIP RESISTORS



November, 2015

## Bourns Announces a Product Extension for the Model CRT Series Thin Film Chip Resistors

Bourns has added higher power ratings, two additional Temperature Coefficient Resistance (TCR) options and has changed the resistance ranges for the [Model CRT Series](#) Thin Film Precision Chip Resistors.

Due to this product update, four part numbers from the existing series will be out of the feasible range. They include Model CRT0805-DZ-1504ELF, CRT1206-CY-1R00ELF, CRT1206-DZ-1R74ELF, and CRT1206-DZ-2004ELF. For more information, please refer to the [Product Obsolescence Memo](#), “*Select Bourns® Model CRT Series Thin Film Precision Chip Resistors to be Discontinued*”.

For additional information and performance specifications, the Bourns® Thin Film Precision Chip Resistors data sheets can be found on the Bourns website at [www.bourns.com](http://www.bourns.com).

Should you have any questions or need additional information, please feel free to contact [Bourns Customer Service/Inside Sales](#).

Model	Power Rating @ +70 °C	
	Current	New
CRT0402	1/16 W	1/16 W (No Change)
CRT0603	1/16 W	<b>1/10 W</b>
CRT0805	1/10 W	<b>1/8 W</b>
CRT1206	1/8 W	<b>1/4 W</b>

Two Additional TCR Options
3 ppm is indicated by the letter “U”
2 ppm is indicated by the letter “T”

~ Continued on Page 2 ~

### Features

- Ultra-tight tolerance
- Wide resistance range
- RoHS compliant\*
- Four package sizes available

### Applications

- Current sense
- Precision circuits
- Medical equipment\*\*
- Printers
- Automation equipment
- Navigation equipment

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

\*\*Bourns® products have not been specifically designed and tested for FDA Class III applications and their use in such applications is neither recommended nor supported.

Value - TCR Table

Model	TCR		Resistance Tolerance (Code)					
	(PPM/°C)	(Code)	±0.01 % (P)	±0.05 % (A)	±0.1 % (B)	±0.25 % (C)	±0.5 % (D)	±1 % (F)
CRT0402	±2	(T)	49.9 to 4.99K Ω			N/A		
	±3	(U)	49.9 to 4.99K Ω			N/A		
	±5	(V)	49.9 to 4.99K Ω					
	±10	(W)	49.9 to 12K Ω			49.9 to 60K Ω		
	±15	(X)				49.9 to 69.8K Ω		
	±25	(Y)	10 to 255K Ω			4.7 to 511K Ω		
	±50	(Z)				4.7 to 511K Ω		
CRT0603	±2	(T)	24.9 to 15K Ω			N/A		
	±3	(U)	24.9 to 15K Ω			N/A		
	±5	(V)	24.9 to 15K Ω					
	±10	(W)	24.9 to 100K Ω			4.7 to 332K Ω		
	±15	(X)				4.7 to 332K Ω		
	±25	(Y)	4.7 to 332K Ω			4.7 to 1M Ω		
	±50	(Z)				4.7 to 1M Ω		
CRT0805	±2	(T)	24.9 to 30K Ω			N/A		
	±3	(U)	24.9 to 30K Ω			N/A		
	±5	(V)	24.9 to 30K Ω					
	±10	(W)	24.9 to 200K Ω			4.7 to 511K Ω		
	±15	(X)				4.7 to 511K Ω		
	±25	(Y)	4.7 to 511K Ω			4.7 to 1M Ω		
	±50	(Z)				1 to 1M Ω		
CRT1206	±2	(T)	24.9 to 49.9K Ω			N/A		
	±3	(U)	24.9 to 49.9K Ω			N/A		
	±5	(V)	24.9 to 49.9K Ω					
	±10	(W)	24.9 to 499K Ω			4.7 to 1M Ω		
	±15	(X)						
	±25	(Y)	4.7 to 1M Ω			4.7 to 1M Ω		
	±50	(Z)						

**New Part Numbers**

CRT0402-DZ-1003GLF	CRT0603-BY-1002ELF	CRT0805-DY-1001ELF	CRT1206-DY-3003ELF
CRT0402-BY-1002GLF	CRT0603-DZ-1001ELF	CRT0805-DY-10R0ELF	CRT1206-DY-1003ELF
CRT0402-DY-1001GLF	CRT0603-DZ-4701ELF	CRT0805-BY-1003ELF	CRT1206-DZ-1002ELF
CRT0402-DY-1000GLF	CRT0603-DZ-1004ELF	CRT0805-DZ-1002ELF	CRT1206-DY-3300ELF
CRT0402-DY-4701GLF	CRT0603-BY-1003ELF	CRT0805-DY-4701ELF	CRT1206-DY-10R0ELF
	CRT0603-BY-1001ELF	CRT0805-BY-1001ELF	