

New Product



Type CLT-Miniature Tantalum Capacitor

The CLT series is now available in three case sizes. These precision micro-miniature polarized capacitors are especially suitable for general filtering, de-coupling, bypassing, and RC timing application. The CLT series operates to +85C without derating and up to +125C with derating. The favorable capacitance to volume ratio has made this series the leader in high-density application such as hearing aids.

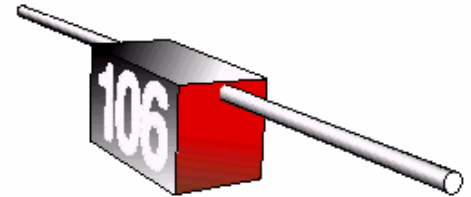
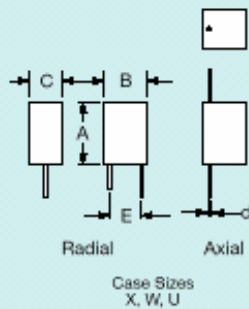


Figure 1



Leads - Leads are solder coated pure nickel wire suitable for soldering or welding. Tested in accordance with MIL-STD-202, Method 211, .010 diameter leads withstand a 1-lb. pull and .007 diameter leads an 8 oz. pull. All lead diameters withstand 5 rotations twist.

Case Dimensions — millimeters (inches)

Case Size	A Max	B Max	C Max	d ±.025 (0.001)	E
X	1.9 (.075)	1.3 (.050)	1.1 (.040)	.178 (.007)	0.8±0.4 (.030±.015)
W	2.5 (.100)	1.3 (.050)	1.1 (.040)	.178 (.007)	0.8±0.4 (.030±.015)
U	3.2 (.125)	1.8 (.070)	1.1 (.040)	.254 (.010)	1.3±0.4 (.050±.015)
Lead length: all case sizes:		Pos. 41.3±3.2 (1.625±.125) Neg. 34.9±3.2 (1.375±.125)			

TECHNICAL SPECIFICATIONS

Technical Data:		All technical data relate to an ambient temperature of +25°C						
Capacitance Range:		0.001µF to 10µF						
Capacitance Tolerance:		±20%; ±10%; ±5%						
Rated Voltage DC (V _R)	≤+85°C:	2	3	4	6	10	15	20
Category Voltage (V _C)	≤+125°C:	1.3	2	2.6	4	6.7	10	13
Surge Voltage (V _S)	≤+85°C:	2.6	4	5.2	8	13	19	26
	≤+125°C:	1.7	2.6	3.4	5.2	8.7	13	16
Temperature Range:		-55°C to +125°C						
Dissipation Factor:		see part number table						
Life Test:		After 2000 hrs. at 85°C with V _R applied. ΔCAP = ±15% max. ΔDF, DCL = initial limit.						



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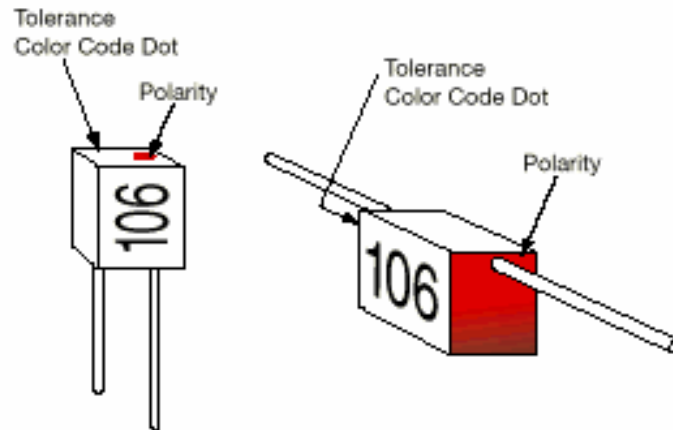


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MARKING

Capacitance value shall be typographically marked on all case sizes.

- Capacitance
- Polarity
- Radial = Red dot on top of unit
- Axial = Red end
- Tolerance code:
 - ±20% = Standard (no marking)
 - ±10% = Silver dot
 - ±5% = Gold dot



CLT	W	472	M	020	R	B	SZ0000
Type	Case Code	Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	Tolerance J = ±5% K = ±10% M = ±20%	Rated DC Voltage	Lead Configuration R = Radial A = Axial	Packaging B = Bulk (100 pcs per bag)	Other Product Information SZ = Standard Product 0000 = Standard Product

*Note: Other digits may be supplied by factory to identify specific customer requirements. Contact factory for details.

Available Ranges:

	DF
2 Volt @85C (1.3 Volt @125C)	15% MAX
3 Volt @85C (2.0 Volt @125C)	10% MAX
4 Volt @85C (2.6 Volt @125C)	10% MAX
6 Volt @85C (4.0 Volt @125C)	10% MAX
10 Volt @85C (6.7 Volt @125C)	10% MAX
15 Volt @85C (10 Volt @125C)	10% MAX
20 Volt @85C (13 volt @125C)	10% MAX

Case Size X

0.47μFd-2.2μFd
0.33μFd
0.22μFd
0.15μFd
0.10μFd
2200pFd-0.068μFd

Case Size W

0.47μFd-2.2μFd
0.33μFd
0.22μFd
0.15μFd
0.10μFd
2200pFd-0.068μFd

Case Size U

2.2μFd-10μFd
1.5μFd-4.7μFd
1.0μFd
0.68μFd
0.47μFd
0.33μFd
1000pFd-0.22μFd