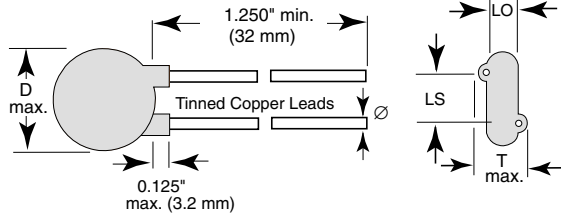


AC Line Rated Disc Capacitors Class X1, 400 VAC/Class Y2, 250 VAC



LO' = 0.125" (3.2 mm) typ.

INSULATION RESISTANCE

Min. 1000 ΩF

TOLERANCE ON CAPACITANCE

± 20 %

DISSIPATION FACTOR

2.0 % max. at 1 kHz; 1 V

CERAMIC DIELECTRIC

Y5U, Y5V (Class 2)

CATEGORY TEMPERATURE RANGE

- 25 °C to + 125 °C

CLIMATIC CATEGORY ACC. TO EN60068-1

25/125/21

OPERATING TEMPERATURE RANGE

- 30 °C to + 125 °C

FEATURES

- Worldwide safety agency recognition
Underwriters laboratories - UL 1414 and UL 1283
Canadian standards association - CSA 22.2
European EN132400 to IEC 60384-14 second edition
- Complete range of capacitance values
- Radial leads
- Compliant to RoHS directive 2002/95/EC



APPLICATIONS

- Required in AC Power Supply and Filter Applications
- Specific Industry Requirements

DESIGN

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper having a diameter of 0.032" (0.81 mm) or 0.025" (0.64 mm). The capacitors may be supplied with radial kinked or straight leads having a lead spacing of 0.375" (9.5 mm) or 0.250" (6.4 mm). The standard tolerance is ± 20 %. Coating is made of flame retardant epoxy resin in accordance with "UL 94 V-0."

CAPACITANCE RANGE

1.0 nF to 0.01 μF

RATED VOLTAGE

IEC 60384-14.2:	(Y2): 250 VAC, 50 Hz
IEC 60384-14.2:	(X1): 400 VAC, 50 Hz
UL 1414:	250 VAC, 60 Hz
UL 1283:	250 VAC, 60 Hz
CSA 22.2 No.1:	250 VAC, 60 Hz
CSA 22.2 No.8:	400 VAC, 60 Hz

DIELECTRIC STRENGTH BETWEEN LEADS

Component test:

2500 VAC, 50 Hz, 2 s

As repeated test admissible only once with:

2250 VAC, 50 Hz, 2 s

Random sampling test (destructive test):

2500 VAC, 50 Hz, 60 s

DIELECTRIC STRENGTH OF BODY INSULATION

2300 VAC, 50 Hz, 60 s (destructive test)

ORDERING INFORMATION, CERAMIC X1/Y2 CAPACITORS 30LVS										
C (pF)	TOL. (%)	D DIAMETER INCH (mm)	T THICKNESS INCH (mm)	WIRE SIZE		LS LEAD SPACE INCH (mm)	ORDERING CODE			
				AWG	INCH (mm)					
Y5U										
1000	± 20 %	0.330 (8.4)	0.195 (5.0)	22	0.025 (0.64)	0.250 (6.4)	30LVSD10-R			
1500		0.330 (8.4)	0.185 (4.7)				30LVSD15-R			
2000		0.330 (8.4)	0.175 (4.4)				30LVSD20-R			
2200		0.330 (8.4)	0.170 (4.3)				30LVSD22-R			
2700		0.365 (9.3)	0.180 (4.6)				30LVSD27-R			
2800		0.365 (9.3)	0.180 (4.6)				30LVSD28-R			
3000		0.400 (10.2)	0.180 (4.6)				30LVSD30-R			
3200		0.400 (10.2)	0.175 (4.4)				30LVSD32-R			
3300		0.400 (10.2)	0.175 (4.4)				30LVSD33-R			
3900		0.460 (11.7)	0.185 (4.7)				30LVSD39-R			
4000		0.490 (12.4)	0.185 (4.7)				30LVSD40-R			
4700		0.490 (12.4)	0.180 (4.6)				30LVSD47-R			
5000		0.530 (13.5)	0.180 (4.6)				30LVSD50-R			
5500		0.530 (13.5)	0.185 (4.7)				30LVSD55-R			
6800		0.620 (15.7)	0.200 (5.1)				20	0.032 (0.81)	0.375 (9.5)	30LVSD68-R
0.010 μF		0.720 (18.3)	0.200 (5.1)				20	0.032 (0.81)	0.375 (9.5)	30LVSS10-R
Y5V										
4700	± 20 %	0.430 (10.9)	0.185 (4.7)	22	0.025 (0.64)	0.250 (6.4)	30LVSD47-R			
0.010 μF	± 20 %	0.620 (15.7)	0.200 (5.1)	20	0.032 (0.81)	0.375 (9.5)	30LVSVS10-R			

Notes

- Alternate lead spacings of 7.5 mm and 10 mm are available bulk or tape and reel on request.
- European required minimum lead clearance (prevents use of inside crimp) 0.118" (3 mm)

TAPE AND REEL OPTIONS

- To specify tape and reel, add two letter suffix to the ordering code (for details of the packaging code see general section of the catalog)

OPTIONAL 3-LEADED STYLE

An optional 3-leaded construction is available. It consists of a single capacitor with the two outside leads attached to one electrode, and the center lead attached to the electrode. Used in feed-thru or line-to-ground applications, it allows a short ground lead for enhanced high frequency performance.





LEAKAGE CURRENT VS. VOLTAGE (TYPICAL)

INSERTION LOSS VS. FREQUENCY (TYPICAL)





APPROVALS						
IEC 60384 - 14/2 nd Issue (1993) incl. Am.1 (1995) - Safety Tests EN132400 (1994) - Safety Tests						
That approval together with CB Test Certificate substitutes the national approval of the following nations:						
Belgium	France	Italy	Austria	China	Japan	Spain
Denmark	Greece	Luxembourg	Portugal	Singapore	Poland	United Kingdom
Germany	Ireland	Netherlands	Sweden	Slovenia	Hungaria	Czech Republic
Finland	Iceland	Norway	Switzerland	Korea	Israel	
X1 Capacitor: CB-Test Certificate:	DE 1-19445		1000 pF... 0.010 μF		400 V _{AC}	
Y2 Capacitor: CB-Test Certificate:	DE 1-19445		1000 pF... 0.010 μF		250 V _{AC}	
UNDERWRITERS LABORATORIES INC.						
UL 1414	Line-by-pass component Agency File/License	E99264 V2S3		1000 pF... 0.010 μF		250 V _{AC}
UL 1283	EMI Filters Agency File/License	E99264 V1S1		1000 pF... 0.010 μF		250 V _{AC}
CANADIAN STANDARDS ASSOCIATION						
CSA C22.2 No. 1	Isolation component Agency File/License	LR 62016-12		1000 pF... 0.010 μF		250 V _{AC}
CSA C22.2 No. 8	Line-to-ground, EMI filter Agency File/License	LR 62016-3		1000 pF... 0.010 μF		400 V _{AC}

Note 1

UL1414 Across-The-Line, Antenna Coupling, and Line-By-Pass Capacitors:

- Across-The-Line - A capacitor connected either across a supply circuit or between one side of a supply circuit and a conductive part that may be connected to earth ground.
- Antenna-Coupling - A capacitor connected from an antenna terminal to circuits within an appliance.
- Line-By-Pass - A capacitor connected between one side of a supply circuit and an accessible conductive part

Note 2

IEC 60384-14 Subclass Y Capacitors:

- A capacitor of a type suitable for use in situations where failure of the capacitor could lead to danger of electric shock.
- Class Y capacitors are divided into sub- classes based on type of insulation bridged and voltage ranges.
- For definitions of basic, supplementary, double and reinforced insulation, see IEC Publication 536.
- Subclass Y capacitors may be used in applications which require a Subclass X rating.

Note 3

IEC 60384-14 Subclass X Capacitors:

- A capacitor of a type suitable for use in situations where failure of the capacitor in situations where failure of the capacitor would not lead to danger of electric shock.
- Class X capacitors are divided into subclasses according to the peak impulse test voltage superimposed on the main voltage

MARKING	
<p>Sample</p> <div style="text-align: center;"> </div>	<div style="text-align: center;"> </div> <p>Type: 019C085B251RR332MLA637-R CM PN: 30LVSD33KA-R E3 Qty. : 1500 LOT1: 11642586 DC1: 0622 IEC60384-14 / 2: LOT2: DC2: Y2 (250~), X1 (400~) R.C.: 7032 S.L.: 0010 Op.No.: 771 LR62016 BATCH NO.: 200622CZ PN: 30LVSD33KA-R PO: 0011642586/0001</p> <div style="display: flex; justify-content: space-between;"> </div>



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<http://moschip.ru/get-element>

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