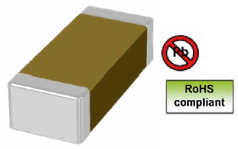
SMD Low Voltage Class II — Non Magnetic SMD

0805Y102KCFB

BREL International

DESCRIPTION

0805 X7R 1.0nF ±10% 200V AgPdPt Tape



FEATURES

- Precious Metal Electrode (PME)
- Temperature stable class II ceramic
- Tested in accordance to CECC 32100 and AEC-Q200
- Ag/Pd/Pt non magnetic termination suitable for soldering or epoxy bonding
- Non magnetic construction : precious metal inner electrodes
- Magnetic properties tested

ELECTRICAL PARAMETERS

CAPACITANCE :
1 nF ±10% at 1 kHz / 1 Vrms

OPERATING TEMPERATURE :
-55°C, +125°C

TEMPERATURE COEFFICIENT :
±15 % (X7R, EIA)

DISSIPATION FACTOR :
≤ 2.5 % at 1 kHz and 1 Vrms

INSULATION RESISTANCE (IR) :
≥ 100 GΩ at 25°C
≥ 10 GΩ at +125°C

DIELECTRIC STRENGTH TEST :
2.5 × Ur / 5 s = 500 V, 50 mA max charging current

MARKING :
Unmarked

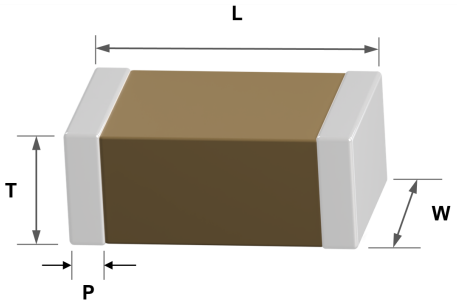
AGEING :
1.9 % per decade

ORDERING INFORMATION

0805	Y	102	K	C	F	B		-
SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	VOLTAGE	TERMINATION	PACKAGING	ELECTRODE	SCREENING
0805	X7R	1.0nF	+/- 10%	200 V	AgPdPt	Tape	Precious Metal Electrode (PME)	Standard

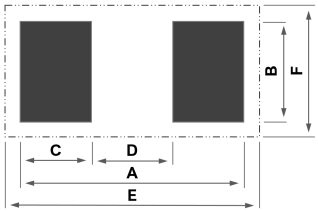
DIMENSIONS IN MILLIMETERS

	0805
Length (L)	2.00 ± 0.20
Width (W)	1.25 ± 0.20
Thickness (T)	0.80 - 1.40
Termination (P) min	0.15
Termination (P) max	0.60



RECOMMENDED FOOTPRINT

	IN MM
A	3.20
B	1.20
C	0.90
D	1.00
E	4.00
F	1.50



BREL International
2001 Whitfield Park Ave
Sarasota, FL 34243 USA

STANDARD PACKAGING

	7" (178 MM)
Carrier tape	Plastic tape · 12 mm
Pieces per 7" reel	3000
Pieces per 13" reel	10000
Ordered packaging	7" reel — 3000 pcs / reel

REVISION HISTORY

REV	DATE	REDACTED BY	APPROVED BY	MODIFICATIONS
A	17/09/2026	PEF	ALU	Creation

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Date : 17/09/2026
Rev : A

Redacted by : PEF
Approved by : ALU

This document is subject to change without notice.

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