



**THE DATASHEET OF
MD015C103KAB**



TWO PIN DIP

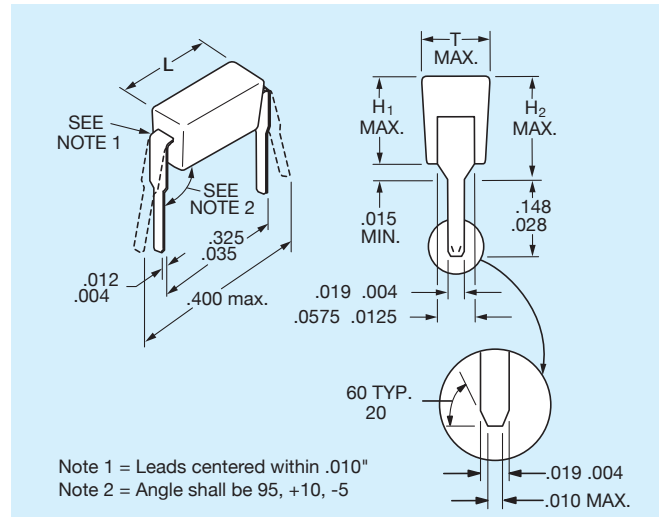
DIPGuard®

GENERAL INFORMATION

MD Series

Temperature Coefficients: COG (NP0), X7R, Z5U, 50, 100 Volts

For established reliability DIPGuards see MIL-PRF-39014 section on pages 60 to 65.



HOW TO ORDER

MD01

Style
MD01
CKR22*
CKS22**
MD02
CKR23*
CKS23*
MD03
CKR24*
CKS24**

5

Voltage
5 = 50V
1 = 100V

E

Temperature Coefficient
A = COG (NP0)
C = X7R
E = Z5U

104

Capacitance
First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 100,000 pF as 104.

M

Capacitance Tolerance
COG (NP0): F = ±1% J = ±5% K = ±10%
X7R: J = ±5% K = ±10% M = ±20%
Z5U: M = ±20% Z = +80% -20%

A

Failure Rate
A = Not Applicable

B

Assembly Method
A = Hand Assembled
B = Automated Assembly

* Reference pages 58 to 63.

** Reference page 79.

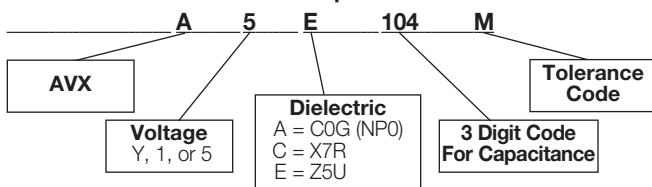
Not RoHS Compliant

MARKING

Part Number Example

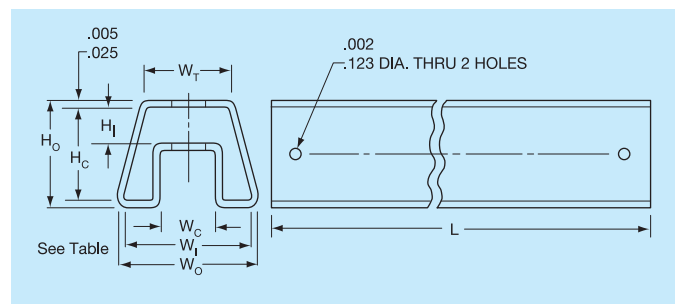
MD015 E 104MAB

Top of Unit:



PACKAGING REQUIREMENTS

Standard Packaging: MD01/MD02: 200 pieces per slide pack.
MD03: 200 pieces per vial.



Slide Package Dimensions

| | MD01 | MD02 | MD03* |
|---------------------|--------------|--------------|--------------|
| (HO) Overall Height | .400 ref. | .430 ref. | .545 ref. |
| (HC) Channel Height | .141 ± .006 | .171 ± .006 | .295 ± .010 |
| (HI) Inside Height | .350 | .380 | .495 |
| (WO) Overall Width | .540 ref. | .540 ref. | .600 ref. |
| (WI) Inside Width | .490 | .490 | .550 |
| (WC) Channel Width | .210 | .210 | .170 |
| (WT) Top Width | .350 | .310 | .300 |
| (L) Length | 20.073 ± .06 | 20.073 ± .06 | 20.073 ± .06 |

*Optional

TWO PIN DIP

DIPGuard®



SIZE SPECIFICATIONS

Dimensions: Millimeters (Inches)

| Style | Length (L) | Height (H ₁) | Height (H ₂) | Thickness |
|-------------|-----------------------|--------------------------|--------------------------|---------------------|
| MD01 | 6.60 (.260 ± .020) | 3.43 (.135 max.) | 4.45 (.175 max.) | 2.54 (.098 max.) |
| MD02 | 6.60 (.260 ± .020) | 4.19 (.162 max.) | 5.08 (.195 max.) | 2.54 (.098 max.) |
| MD03 | 6.60 (.260 ± .020) | 7.37 (.290 max.) | 8.13 (.320 max.) | 2.54 (.098 max.) |

MILITARY CROSS REFERENCE GUIDE

Note: For CKR22/23/24, see MIL-PRF-39014 section in the Military Section pages 58 thru 63.
For CKS22/23/24 see MIL-PRF-123 section in the Military Section page 79.

Dimensions: Millimeters (Inches)

| Style | MIL-PRF-39014 | MIL-PRF-123 | Length (L) | Height (H ₁) | Height (H ₂) | Thickness |
|-------|---------------|-------------|-----------------------|--------------------------|--------------------------|-----------------------|
| MD01 | CKR22 | CKS22 | 6.60 (.260 ± .020) | 3.43 (.135 max.) | 4.45 (.175 max.) | 2.54 (.092 ± .006) |
| MD02 | CKR23 | CKS23 | 6.60 (.260 ± .020) | 4.19 (.162 max.) | 5.08 (.195 max.) | 2.54 (.092 ± .006) |
| MD03 | CKR24 | CKS24 | 6.60 (.260 ± .020) | 7.37 (.290 max.) | 8.13 (.320 max.) | 2.54 (.092 ± .006) |

CAPACITANCE SPECIFICATIONS

COG (NP0)

| EIA Characteristic | | COG (NP0) | |
|--------------------|--------------|-----------|----|
| Style | | MD01 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 10 | MD015A100KAB | | |
| 15 | MD015A150KAB | | |
| 22 | MD015A220KAB | | |
| 33 | MD015A330KAB | | |
| 47 | MD015A470KAB | | |
| 68 | MD015A680KAB | | |
| 100 | MD015A101KAB | | |
| 150 | MD015A151KAB | | |
| 220 | MD015A221KAB | | |
| 330 | MD015A331KAB | | |
| 470 | MD015A471KAB | | |
| 680 | MD015A681KAB | | |
| 1000 | MD015A102KAB | | |
| 1500 | MD015A152KAB | | |
| 2200 | MD015A222KAB | | |
| 3300 | MD015A332KAB | | |
| Style | | MD02 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 4700 | MD025A472KAB | | |
| 6800 | MD025A682KAB | | |
| 10000 | MD025A103KAB | | |

For other voltages and tolerances see Part No. Codes.

X7R

| EIA Characteristic | | X7R | |
|--------------------|---------------------|------|----|
| Style | | MD01 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 220 | MD015C221KAB | | |
| 330 | MD015C331KAB | | |
| 470 | MD015C471KAB | | |
| 680 | MD015C681KAB | | |
| 1000 | MD015C102KAB | | |
| 1500 | MD015C152KAB | | |
| 2200 | MD015C222KAB | | |
| 3300 | MD015C332KAB | | |
| 4700 | MD015C472KAB | | |
| 6800 | MD015C682KAB | | |
| 10,000 | MD011C103KAB | | |
| 15,000 | MD015C153KAB | | |
| 22,000 | MD015C223KAB | | |
| 33,000 | MD015C333KAB | | |
| 47,000 | MD015C473KAB | | |
| 68,000 | MD015C683KAB | | |
| 100,000 | MD015C104KAB | | |
| Style | | MD02 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 150,000 | MD025C154KAB | | |
| 220,000 | MD025C224KAB | | |
| Style | | MD03 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 330,000 | MD035C334KAA | | |
| 470,000 | MD035C474KAA | | |
| 680,000 | MD035C684KAA | | |
| 1,000,000 | MD035C105KAA | | |
| 1,500,000 | MD035C155KAA | | |
| 2,000,000 | MD035C205KAA | | |

For other voltages and tolerances see Part No. Codes.

Z5U

| EIA Characteristic | | Z5U | |
|--------------------|---------------------|------|----|
| Style | | MD01 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 10,000 | MD015E103ZAB | | |
| 15,000 | MD015E153ZAB | | |
| 22,000 | MD015E223ZAB | | |
| 33,000 | MD015E333ZAB | | |
| 47,000 | MD015E473ZAB | | |
| 68,000 | MD015E683ZAB | | |
| 100,000 | MD015E104ZAB | | |
| 150,000 | MD015E154ZAB | | |
| 220,000 | MD015E224ZAB | | |
| 330,000 | MD015E334ZAB | | |
| Style | | MD02 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 470,000 | MD025E474ZAB | | |
| Style | | MD03 | |
| Cap. in. pF | | WVDC | |
| | | 100 | 50 |
| 680,000 | MD035E684ZAA | | |
| 1,000,000 | MD035E105ZAA | | |

For other voltages and tolerances see Part No. Codes.

*Other capacitance values available upon special request.

= Industry preferred values

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View MD015C103KAB](#) on WIN SOURCE

 [AVX Corporation](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management