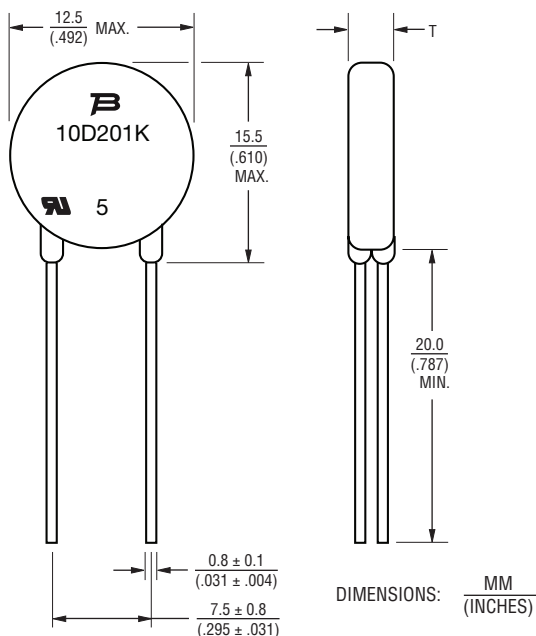


MOV-10DxxxK Series - Metal Oxide Varistor

BOURNS®

Product Dimensions

This is an RoHS compliant molded radial package with 100 % Sn plating on the terminations.



Bourns Part Number	Dim. T (Max.)
MOV-10D180K	$\frac{3.8}{(.150)}$
MOV-10D220K	$\frac{3.9}{(.154)}$
MOV-10D270K	$\frac{4.2}{(.165)}$
MOV-10D330K	$\frac{3.8}{(.150)}$
MOV-10D390K	$\frac{4.0}{(.157)}$
MOV-10D470K	$\frac{4.2}{(.165)}$
MOV-10D560K	$\frac{4.3}{(.169)}$
MOV-10D680K	$\frac{4.4}{(.173)}$
MOV-10D820K	$\frac{3.8}{(.150)}$
MOV-10D101K	$\frac{4.0}{(.157)}$
MOV-10D121K	$\frac{4.2}{(.165)}$
MOV-10D151K	$\frac{4.4}{(.173)}$
MOV-10D181K	$\frac{3.6}{(.142)}$
MOV-10D201K	$\frac{3.8}{(.150)}$
MOV-10D221K	$\frac{3.9}{(.154)}$

Bourns Part Number	Dim. T (Max.)
MOV-10D241K	$\frac{4.0}{(.157)}$
MOV-10D271K	$\frac{4.2}{(.165)}$
MOV-10D301K	$\frac{4.4}{(.173)}$
MOV-10D331K	$\frac{4.6}{(.181)}$
MOV-10D361K	$\frac{4.8}{(.189)}$
MOV-10D391K	$\frac{5.0}{(.197)}$
MOV-10D431K	$\frac{5.2}{(.205)}$
MOV-10D471K	$\frac{5.4}{(.213)}$
MOV-10D511K	$\frac{5.5}{(.217)}$
MOV-10D561K	$\frac{5.9}{(.232)}$
MOV-10D621K	$\frac{6.2}{(.244)}$
MOV-10D681K	$\frac{6.4}{(.252)}$
MOV-10D751K	$\frac{6.6}{(.260)}$
MOV-10D781K	$\frac{6.8}{(.268)}$
MOV-10D821K	$\frac{7.2}{(.283)}$

Typical Part Marking

Bourns Part Number	Bourns Part Marking
MOV-10D180K	10D180K
MOV-10D220K	10D220K
MOV-10D270K	10D270K
MOV-10D330K	10D330K
MOV-10D390K	10D390K
MOV-10D470K	10D470K
MOV-10D560K	10D560K
MOV-10D680K	10D680K
MOV-10D820K	10D820K
MOV-10D101K	10D101K
MOV-10D121K	10D121K
MOV-10D151K	10D151K
MOV-10D181K	10D181K
MOV-10D201K	10D201K
MOV-10D221K	10D221K
MOV-10D241K	10D241K
MOV-10D271K	10D271K
MOV-10D301K	10D301K
MOV-10D331K	10D331K
MOV-10D361K	10D361K
MOV-10D391K	10D391K
MOV-10D431K	10D431K
MOV-10D471K	10D471K
MOV-10D511K	10D511K
MOV-10D561K	10D561K
MOV-10D621K	10D621K
MOV-10D681K	10D681K
MOV-10D751K	10D751K
MOV-10D781K	10D781K
MOV-10D821K	10D821K

NOTE: The "5" marking on MOV products is for traceability of production assembly for quality assurance compliance.

How to Order

MOV - 10D nn (n) K (TR)

Model Designator _____
MOV = Metal Oxide Varistor

Disc Diameter _____
10D = 10 mm

Nominal Varistor Voltage _____
See Electrical Characteristics Table

Multiplier of Voltage Digits _____
0 = No multiplier
1 = nn * 10¹

Varistor Voltage Tolerance _____
K = 10 %

Packaging _____
Blank = Bulk
TR = Tape & Reel

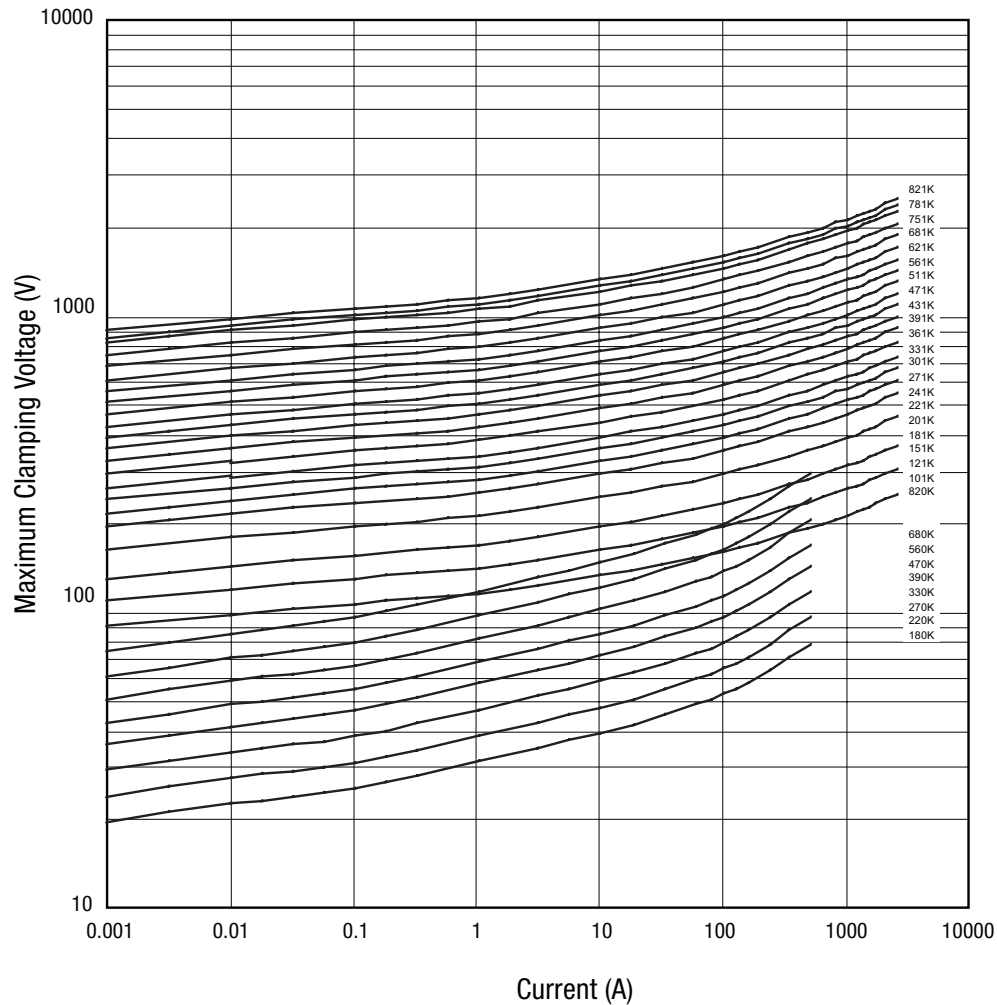
Examples: MOV-10D270K = 27 V, Bulk Pack
MOV-10D331KTR = 330 V, Tape & Reel

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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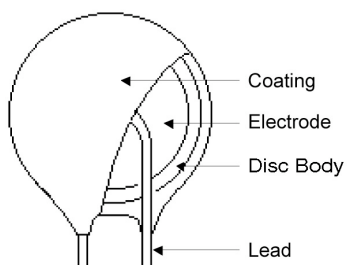
MOV-10DxxxK Series - Metal Oxide Varistor

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Performance Graphs



Internal Construction



Environmental Specifications

Moisture Sensitivity Level.....	1
ESD Classification (HBM).....	6

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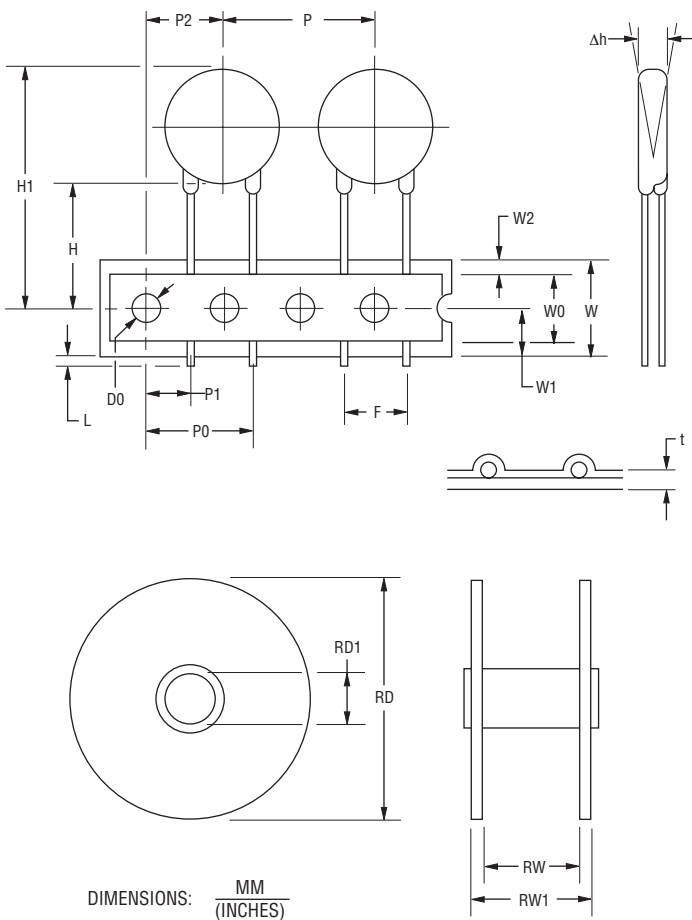
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MOV-10DxxxK Series - Metal Oxide Varistor

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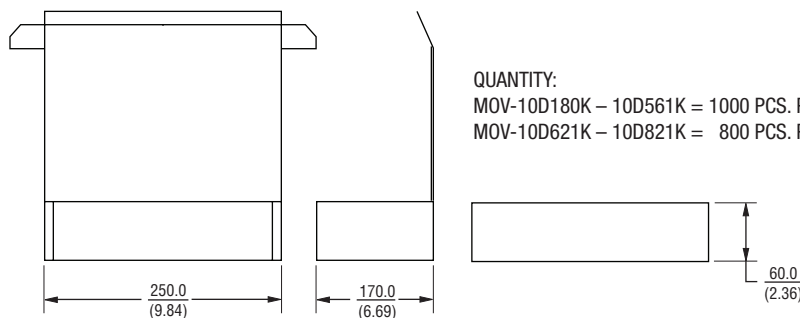
Packaging Information

TAPE & REEL



Item	Symbol	10 mm Disc
Reel Outside Diameter	RD	355 (13.98)
Reel Inner Diameter	RD1	30 (1.181)
Tape Width	RW	55 (2.16)
Reel Width	RW1	63 (2.48) max.
Pitch of Component	P	25.4 ± 0.7 (1.00 ± 0.03)
Feed Hole Pitch	P0	12.7 ± 1.0 (0.50 ± 0.04)
Feed Hole Center to Pitch	P1	8.95 ± 0.7 (0.352 ± 0.03)
Feed Hole Center to Component Center	P2	12.7 ± 1.0 (0.50 ± 0.04)
Lead to Lead Distance	F	7.50 ± 0.8 (0.30 ± 0.03)
Component Alignment	Δh	2.0 (0.079)
Tape Width	W	18.0 ± 0.5 (0.71 ± 0.02)
Hole Down Tape Width	W0	12.0 ± 0.8 (0.47 ± 0.03)
Hole Position	W1	9.0 ± 0.5 (0.35 ± 0.02)
Hole Down Tape Position	W2	3.0 (0.12) max.
Height From Center to Component Base	H	19.0 ± 1.0 (0.75 ± 0.04)
Seating Plane Height	H0	16.0 ± 1.0 (0.63 ± 0.04)
Component Height	H1	36.0 (1.42) max.
Crimp Length	C	2.60 (0.10) typ.
Feed Hole Diameter	D0	4.0 ± 0.2 (0.16 ± 0.08)
Total Tape Thickness	t	0.6 ± 0.3 (0.02 ± 0.01)
Length of Clipped Height	L	1.0 (0.04) max.
Quantity per Reel (10D180K – 10D361K)	-	1000
Quantity per Reel (10D391K – 10D821K)	-	500

BULK



REV. 08/17

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