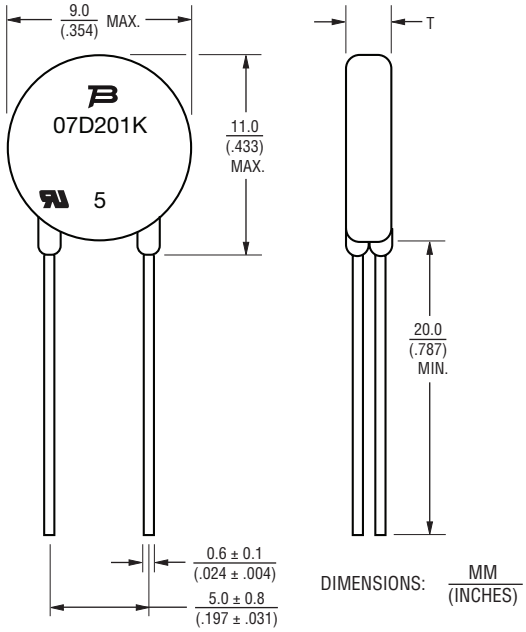
MOV-07DxxxK Series - Metal Oxide Varistor

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-07D180K	3.4 (.134)
MOV-07D220K	3.5 (.138)
MOV-07D270K	3.8 (.150)
MOV-07D330K	3.4 (.134)
MOV-07D390K	3.6 (.142)
MOV-07D470K	3.8 (.150)
MOV-07D560K	3.9 (.154)
MOV-07D680K	4.0 (.157)
MOV-07D820K	3.4 (.134)
MOV-07D101K	3.6 (.142)
MOV-07D121K	3.8 (.150)
MOV-07D151K	4.0 (.157)
MOV-07D181K	3.2 (.126)
MOV-07D201K	3.4 (.134)
MOV-07D221K	3.5 (.138)

Bourns Part Number	Dim. T (Max.)
MOV-07D241K	3.6 (.142)
MOV-07D271K	3.8 (.150)
MOV-07D301K	4.0 (.157)
MOV-07D331K	4.2 (.165)
MOV-07D361K	4.4 (.173)
MOV-07D391K	4.6 (.181)
MOV-07D431K	4.8 (.189)
MOV-07D471K	5.0 (.197)
MOV-07D511K	5.1 (.201)
MOV-07D561K	5.4 (.213)
MOV-07D621K	5.8 (.228)
MOV-07D681K	6.0 (.236)
MOV-07D751K	6.2 (.244)
MOV-07D781K	6.4 (.252)
MOV-07D821K	6.8 (.268)

Typical Part Marking

Bourns Part Number	Bourns Part Marking
MOV-07D180K	07D180K
MOV-07D220K	07D220K
MOV-07D270K	07D270K
MOV-07D330K	07D330K
MOV-07D390K	07D390K
MOV-07D470K	07D470K
MOV-07D560K	07D560K
MOV-07D680K	07D680K
MOV-07D820K	07D820K
MOV-07D101K	07D101K
MOV-07D121K	07D121K
MOV-07D151K	07D151K
MOV-07D181K	07D181K
MOV-07D201K	07D201K
MOV-07D221K	07D221K
MOV-07D241K	07D241K
MOV-07D271K	07D271K
MOV-07D301K	07D301K
MOV-07D331K	07D331K
MOV-07D361K	07D361K
MOV-07D391K	07D391K
MOV-07D431K	07D431K
MOV-07D471K	07D471K
MOV-07D511K	07D511K
MOV-07D561K	07D561K
MOV-07D621K	07D621K
MOV-07D681K	07D681K
MOV-07D751K	07D751K
MOV-07D781K	07D781K
MOV-07D821K	07D821K

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

How to Order

MOV - 07D nn (n) K (TR)

Model Designator
MOV = Metal Oxide Varistor

Disc Diameter
07D = 7 mm

Nominal Varistor Voltage
See Electrical Characteristics Table

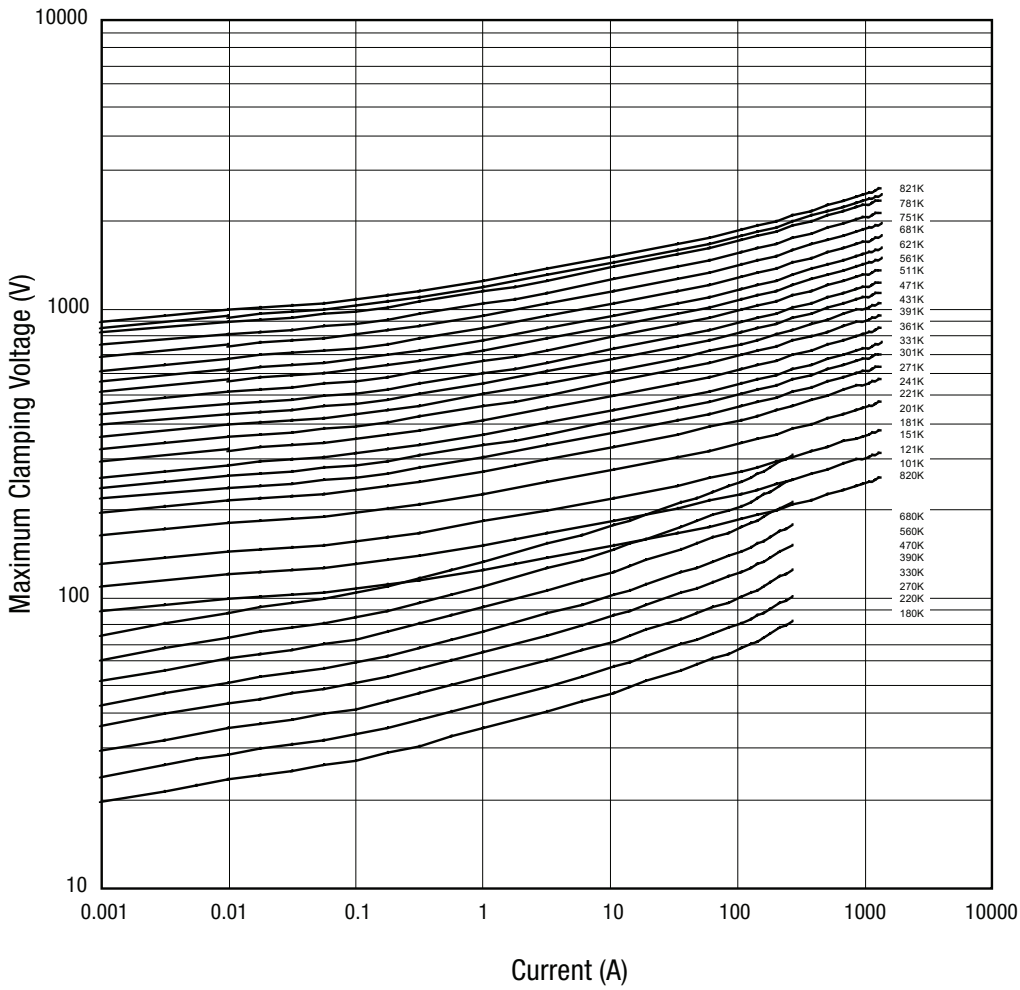
Multiplier of Voltage Digits
0 = No multiplier
1 = nn * 10^1

Varistor Voltage Tolerance
K = 10 %

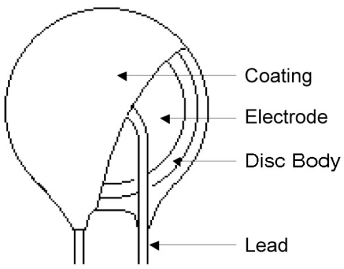
Packaging
Blank = Bulk
TR = Tape & Reel

Examples: MOV-07D270K = 27 V, Bulk Pack
MOV-07D331KTR = 330 V, Tape & Reel

Performance Graphs



Internal Construction

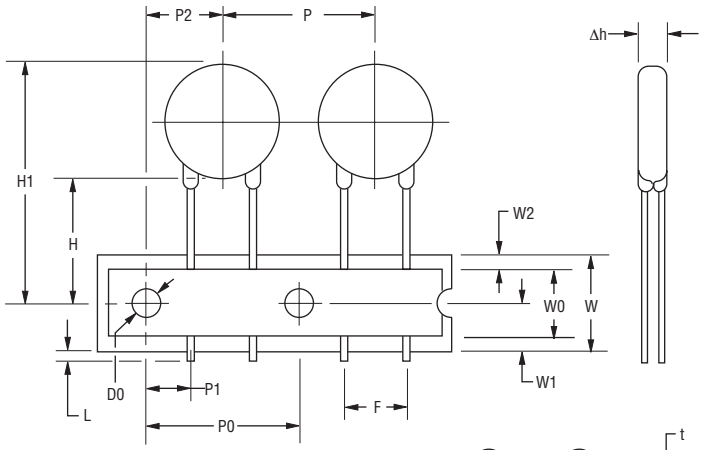


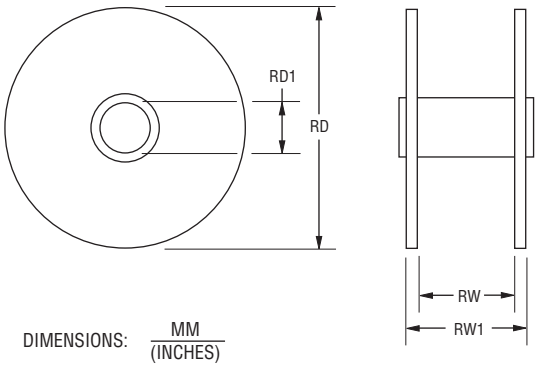
Environmental Specifications

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

Packaging Information

TAPE & REEL

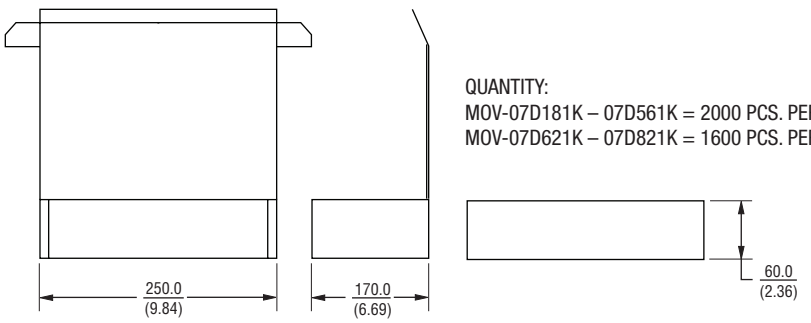




DIMENSIONS: MM / (INCHES)

Item	Symbol	7 mm Disc
Reel Outside Diameter	RD	355 (13.98)
Reel Inner Diameter	RD1	30 (1.181)
Tape Width	RW	47 (18.50)
Reel Width	RW1	53 (20.87)
Pitch of Component	P	12.7 ± 1.0 (0.50 ± 0.04)
Feed Hole Pitch	P0	12.7 ± 1.0 (0.50 ± 0.04)
Feed Hole Center to Pitch	P1	3.85 ± 0.7 (0.15 ± 0.03)
Feed Hole Center to Component Center	P2	6.35 ± 1.0 (0.25 ± 0.04)
Lead to Lead Distance	F	5.00 ± 0.8 (0.20 ± 0.03)
Component Alignment	Δh	2.0 (0.79) max.
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 ± 0.5 (0.63 ± 0.02)
Component Height	H1	32.0 (1.26) 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 Clippped Height	L	1.0 (0.04) max.
Quantity per Reel (07D180K – 07D391K)	-	2000
Quantity per Reel (07D431K – 07D561K)	-	1500
Quantity per Reel (07D621K – 07D821K)	-	1000

BULK



QUANTITY:
MOV-07D181K – 07D561K = 2000 PCS. PER BOX
MOV-07D621K – 07D821K = 1600 PCS. PER BOX

REV. 08/17

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