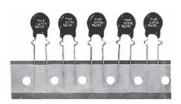
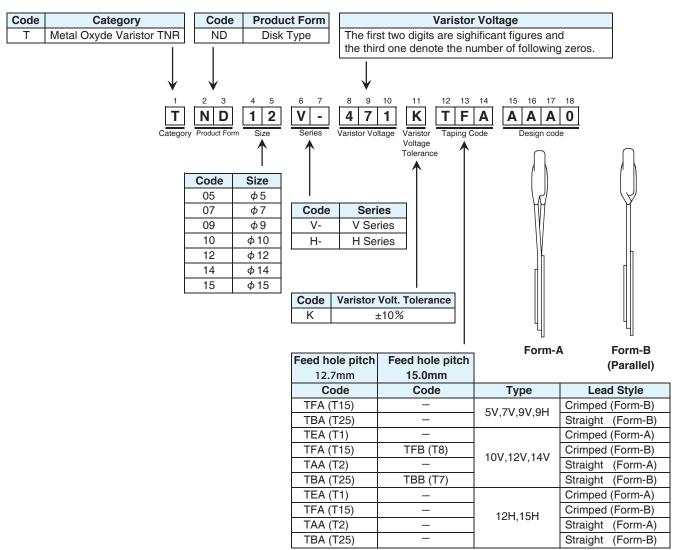


•This Specifies taping specifications for varistors which have normal disk diameter of 5 to 15mm and nominal varistor voltage of 15 to 510V.

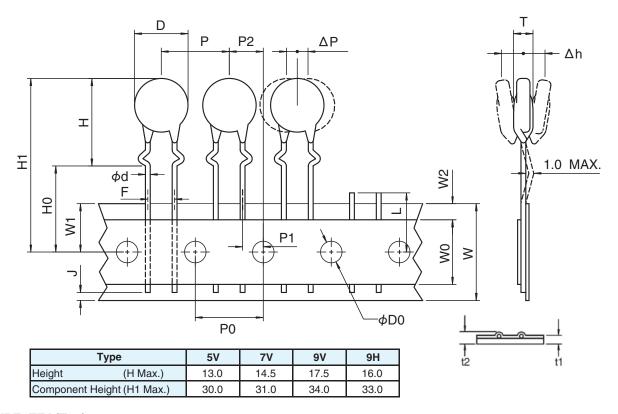


◆PART NUMBERING SYSTEM



Note: The Code (T1,T15,T2,T25,T8,T7) are the old taping code.

◆5V, 7V, 9V, 9H : TYPE TFA(T15) (Crimped Lead)

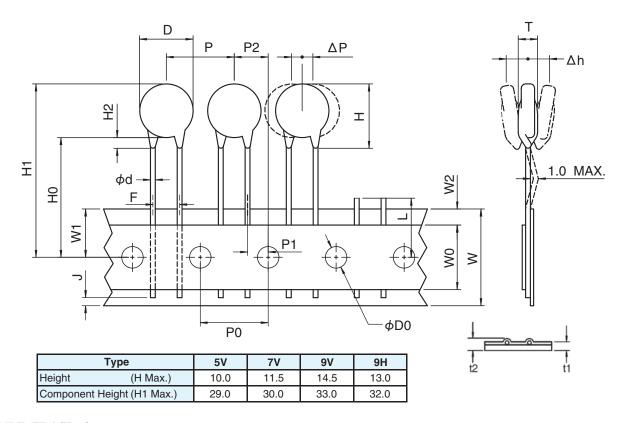


◆TYPE TFA(T15)

Parameter	Code	Dimensions (mm)	Note
Diameter of component	D	_	Refer to the applicable detail spec
Thickness of component	Т	_	Refer to the applicable detail spec
Lead diameter	φd	0.6±0.05	
Pitch of component	Р	12.7±1.0	
Feed hole pitch	P0	12.7±0.3	Cumulative pitch error : ±1 mm/20 pitches
Feed hole diameter	φD0	4.0±0.2	
Feed hole center to lead	P1	3.85±0.7	Measured at the upper end of tape
Feed hole center to component center	P2	6.35±1.3	
Feed hole position	W1	9.0±0.5	
Lead spacing	F	5.0±0.8	
Deviation across tape	Δh	0±2.0	
Deviation along tape	ΔΡ	0±1.0	
Carrier tape width	W	18.0± 1.0 0.5	
Hold down tape width	W0	5.0 Min.	
Tape thickness	t1	0.6±0.3	
Total tape thickness	t2	1.5 Max.	
Hold down tape position	W2	3.0 Max.	
Seating plane height	H0	16.0±0.5	
Component height	H1	_	Please refer to the above list
Lead position	J	6.0 Max.	
Defective article cut position	L	11.0 Max.	



♦ 5V, 7V, 9V, 9H : TYPE TBA(T25) (Straight Lead)

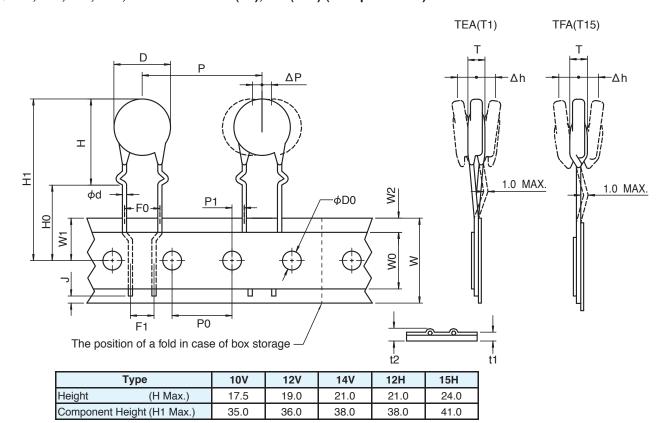


◆TYPE TBA(T25)

Parameter	Code	Dimensions (mm)	Note
Diameter of component	D	_	Refer to the applicable detail spec
Thickness of component	Т	_	Refer to the applicable detail spec
Lead diameter	φd	0.6±0.05	
Pitch of component	Р	12.7±1.0	
Feed hole pitch	P0	12.7±0.3	Cumulative pitch error : ±1 mm/20 pitches
Feed hole diameter	φD0	4.0±0.2	
Feed hole center to lead	P1	3.85±0.7	Measured at the upper end of tape
Feed hole center to component center	P2	6.35±1.3	
Feed hole position	W1	9.0±0.5	
Lead spacing	F	5.0±0.8	
Deviation across tape	Δh	0±2.0	9V : 34.0 Max.
Deviation along tape	ΔΡ	0±1.0	
Carrier tape width	V	18.0± 1:0	
Hold down tape width	W0	5.0 Min.	
Tape thickness	t1	0.6±0.3	
Total tape thickness	t2	1.5 Max.	
Hold down tape position	W2	3.0 Max.	
Height from tape center to component base	H0	20.0± 1.5	
Component beight	H1	_	Please refer to the above list
Component height	H2	3.0 Max.	
Lead position	J	6.0 Max.	
Defective article cut position	L	11.0 Max.	



♦10V, 12V, 14V, 12H, 15H : TYPE TEA(T1), TFA(T15) (Crimped Lead)

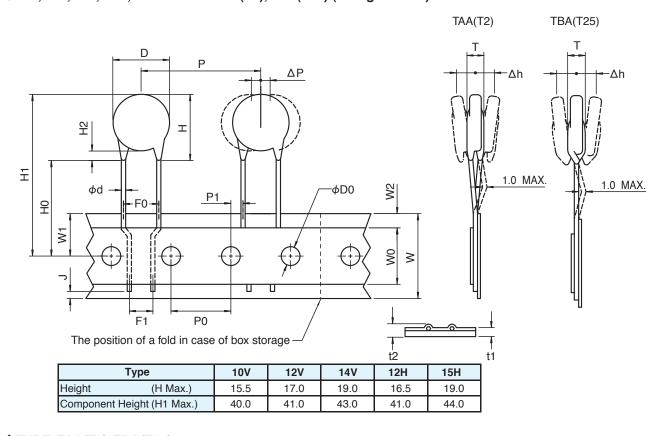


◆TYPE TEA(T1), TFA(T15)

Parameter	Code	Dimensions (mm)	Note
Diameter of component	D	_	Refer to the applicable detail spec
Thickness of component	Т	_	Refer to the applicable detail spec
Lead diameter	φd	0.8±0.05	
Pitch of component	Р	25.4±1.0	
Feed hole pitch	P0	12.7±0.3	Cumulative pitch error : ±1 mm/20 pitches
Feed hole diameter	φD0	4.0±0.2	
Feed hole center to lead	P1	2.6±0.5	Measured at the upper end of tape
Feed hole position	W1	9.0±0.5	
Londonosina	F0	7.5±0.8	
Lead spacing	F1	5.0 Nom.	
Deviation across tape	Δh	0±2.0	
Deviation along tape	ΔΡ	0±1.0	
Carrier tape width	W	18.0 +1.0 -0.5	
Hold down tape width	W0	5.0 Min.	
Tape thickness	t1	0.6±0.3	
Total tape thickness	t2	1.5 Max.	
Hold down tape position	W2	3.0 Max.	
Seating plane height	H0	16.0±1.0	
Component height	H1	_	Please refer to the above list
Lead position	J	6.0 Max.	



◆10V, 12V, 14V, 12H, 15H: TYPE TAA(T2), TBA(T25) (Straight Lead)

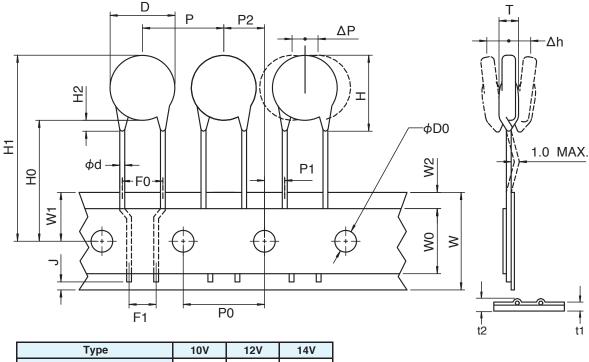


◆TYPE TAA(T2), TBA(T25)

Parameter	Code	Dimensions (mm)	Note
Diameter of component	D	_	Refer to the applicable detail spec
Thickness of component	Т	_	Refer to the applicable detail spec
Lead diameter	φd	0.8±0.05	
Pitch of component	Р	25.4±1.0	
Feed hole pitch	P0	12.7±0.3	Cumulative pitch error : ±1 mm/20 pitches
Feed hole diameter	φD0	4.0±0.2	
Feed hole center to lead	P1	2.6±0.5	Measured at the upper end of tape
Feed hole position	W1	9.0±0.5	
Lead spacing	F0	7.5±0.8	
Lead spacing	F1	5.0 Nom.	
Deviation across tape	Δh	0±2.0	
Deviation along tape	ΔΡ	0±1.0	
Carrier tape width	W	18.0 ^{+1.0} _{-0.5}	
Hold down tape width	W0	5.0 Min.	
Tape thickness	t1	0.6±0.3	
Total tape thickness	t2	1.5 Max.	
Hold down tape position	W2	3.0 Max.	
Height from tape center to component base	H0	20.0 Min.	SE: 19.0 Min.
Component height	H1	_	Please refer to the above list
Component height	H2	3.0 Max.	
Lead position	J	6.0 Max.	



♦10V, 12V, 14V:TYPE TBB(T7) (Straight Lead, 15mm Pitch)



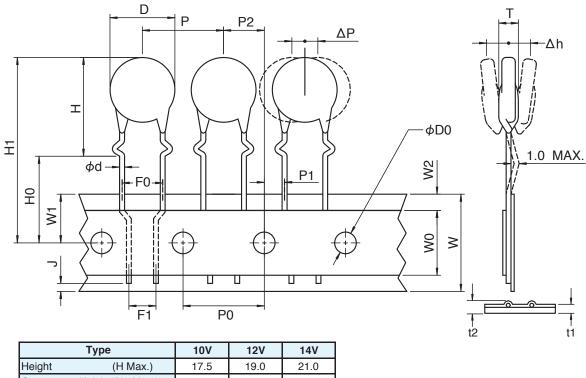
Туре		10V	12V	14V
Height	(H Max.)	15.5	17.0	19.0
Component	Height (H1 Max.)	37.0	39.0	41.0

◆TYPE TBB(T7)

Parameter	Code	Dimensions (mm)	Note
Diameter of component	D	_	Refer to the applicable detail spec (14V: 15.0 Max.)
Thickness of component	Т	_	Refer to the applicable detail spec
Lead diameter	φd	0.8±0.05	
Pitch of component	Р	15.0±1.0	14SE: 30.0 ±1.0 mm
Feed hole pitch	P0	15.0±0.3	Cumulative pitch error : ±1 mm/20 pitches
Feed hole diameter	φD0	4.0±0.2	
Feed hole center to lead	P1	3.75±0.5	Measured at the upper end of tape
Feed hole center to component center	P2	7.5±1.3	
Feed hole position	W1	9.0±0.5	
Load angaing	F0	7.5±0.8	
Lead spacing	F1	5.0 Nom.	
Deviation across tape	Δh	0±2.0	
Deviation along tape	ΔΡ	0±1.3	
Carrier tape width	W	18.0± 0.5	
Hold down tape width	W0	5.0 Min.	
Tape thickness	t1	0.6±0.3	
Total tape thickness	t2	1.5 Max.	
Hold down tape position	W2	3.0 Max.	
Height from tape center to component base	H0	20.0± 1.5	
Component height	H1	_	Please refer to above list
Component height	H2	3.0 Max.	
Lead position	J	6.0 Max.	



♦10V, 12V, 14V: TYPE TFB(T8) (Crimped Lead, 15mm Pitch)



Туре	10V	12V	14V
Height (H Max.)	17.5	19.0	21.0
Component Height (H1 Max.)	35.0	36.0	38.0

◆TYPE TFB(T8)

Parameter	Code	Dimensions (mm)	Note
Diameter of component	D	_	Refer to the applicable detail spec (14V: 15.0 Max.)
Thickness of component	Т	_	Refer to the applicable detail spec
Lead diameter	φd	0.8±0.05	
Pitch of component	Р	15.0±1.0	14SE: 30.0±1.0 mm
Feed hole pitch	P0	15.0±0.3	Cumulative pitch error : ±1 mm/20 pitches
Feed hole diameter	φD0	4.0±0.2	
Feed hole center to lead	P1	3.75±0.5	Measured at the upper end of tape
Feed hole center to component center	P2	7.5±1.3	
Feed hole position	W1	9.0±0.5	
Load aposing	F0	7.5±0.8	
Lead spacing	F1	5.0 Nom.	
Deviation across tape	Δh	0±2.0	
Deviation along tape	ΔΡ	0±1.3	
Carrier tape width	W	18.0± 1.0 0.5	
Hold down tape width	W0	5.0 Min.	
Tape thickness	t1	0.6±0.3	
Total tape thickness	t2	1.5 Max.	
Hold down tape position	W2	3.0 Max.	
Soating plane height	Н	_	10V; 17.5 Max. 14V; 21.0 Max.
Seating plane height	H0	16.0±1.0	
Component height	H1	_	Please refer to above list
Lead position	J	6.0 Max.	