

Varistor Packing

L TYPE

TABLE-1

SPECIFICATION

Series	Dmax.	Hmax.	E (±0.8)	d (±0.1)	Lmin.
05D	7	9	5	0.6	20
07D	9	11	5	0.6	
10D	12.5	15.5	7.5	0.8	
14D	16.5	20.0*	7.5	0.8	
20D	23	26.0**	7.5	0.8	
	23	26.0**	10	1	
25D	28	34	10	1	
	28	34	12.7	1.2	

* Above 14D561K ,Hmax. = 22.0 mm

** Above 20D561K ,Hmax. = 28.0 mm

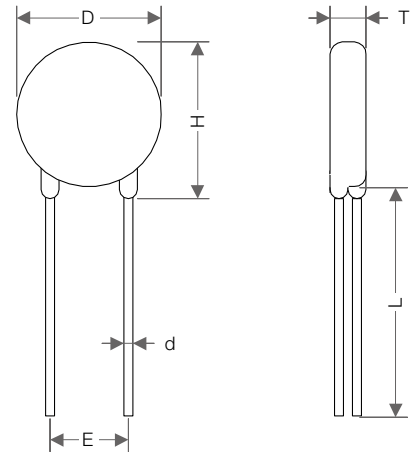
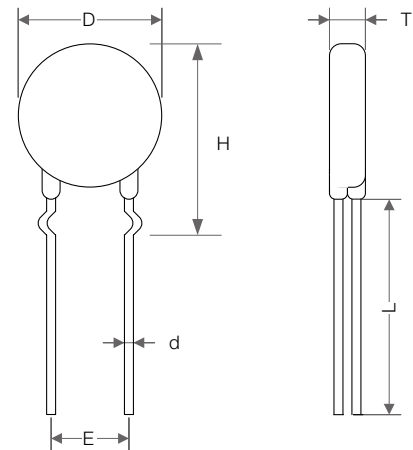


TABLE-2

SPECIFICATION

Series	Dmax.	Hmax.	E (±0.8)	d (±0.1)	Lmin.
05D	7	13	5	0.6	20
07D	9	13.5	5	0.6	
10D	12.5	17.5	7.5	0.8	
14D	16.5	21.0*	7.5	0.8	
20D	23	28.0**	7.5	0.8	
	23	28.0**	10	1	
25D	28	34	10	1	
	28	34	12.7	1.2	



L TYPE

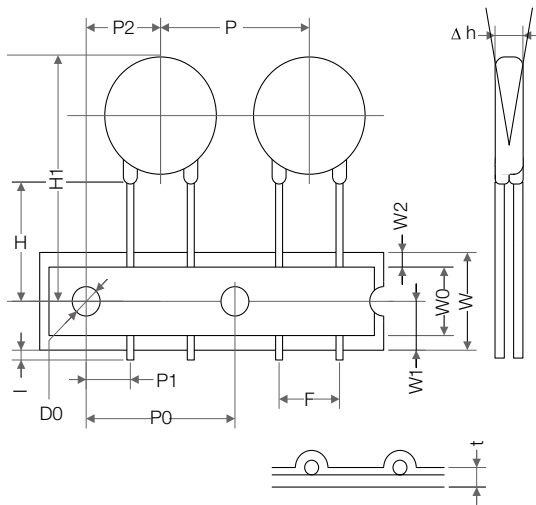
TABLE-4

SPECIFICATION

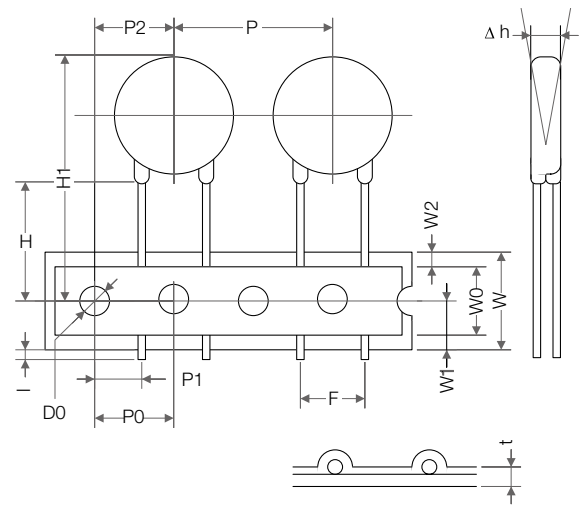
Part No.	05D	07D	10D	14D	20D	25D
180K	3.4	3.4	3.8	3.8	4.2	4.6
220K	3.5	3.5	3.9	3.9	4.3	4.7
270K	3.8	3.8	4.2	4.2	4.6	5
330K	3.4	3.4	3.8	3.8	4.2	4.6
390K	3.6	3.6	4	4	4.4	4.8
470K	3.8	3.8	4.2	4.2	4.6	5
560K	3.9	3.9	4.3	4.3	4.7	5.1
680K	4	4	4.4	4.4	4.8	5.2
820K	3.4	3.4	3.8	3.8	4.2	4.6
101K	3.6	3.6	4	4	4.4	4.8
121K	3.8	3.8	4.2	4.2	4.6	5
151K	4	4	4.4	4.4	4.8	5.1
181K	3.5	3.5	3.9	3.9	4.3	4.7
201K	3.7	3.7	4.1	4.1	4.5	4.9
221K	3.9	3.9	4.3	4.3	4.7	5.1
241K	4	4	4.4	4.4	4.8	5.2
271K	4.1	4.1	4.5	4.5	4.9	5.3
301K	4.3	4.3	4.7	4.7	5.1	5.5
331K	4.4	4.4	4.8	4.8	5.2	5.6
361K	4.6	4.6	5	5	5.4	5.8
391K	4.8	4.8	5.2	5.2	5.6	6
431K	5	5	5.4	5.4	5.8	6.2
471K	5.2	5.2	5.6	5.6	6	6.4
511K	5.4	5.4	5.8	5.8	6.2	6.6
561K	5.7	5.7	6.1	6.1	6.5	6.9
621K	-	6.1	6.5	6.5	6.9	7.3
681K	-	6.2	6.6	6.6	7	7.4
711K	-	6.4	6.8	6.8	7.2	7.6
751K	-	6.6	7	7	7.4	7.8
781K	-	6.9	7.3	7.3	7.7	8.1
821K	-	7.2	7.6	7.6	8	8.4
911K	-	-	7.8	7.8	8.2	8.6
951K	-	-	8	8	8.4	8.8
102K	-	-	8.3	8.3	8.7	9.1
112K	-	-	9.2	9.2	9.6	10
122K	-	-	-	10.6	11	11.4
142K	-	-	-	10.8	11.2	11.6
152K	-	-	-	11	11.4	11.8
162K	-	-	-	11.8	12.2	12.6
182K	-	-	-	12.6	13	13.4

Taping I

05D, 07D Series



10D, 14D, 20D Series

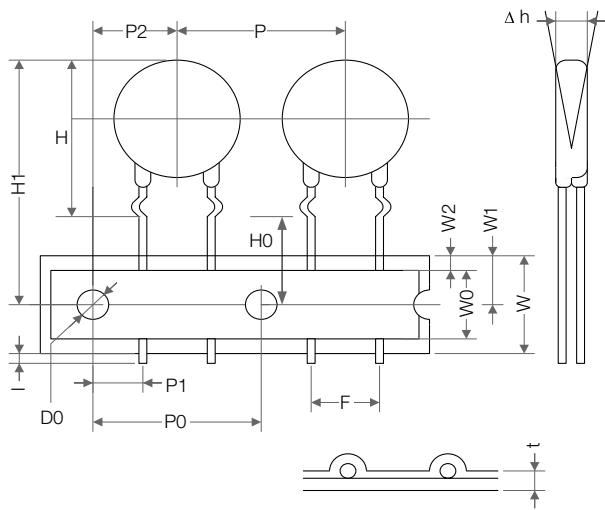


SPECIFICATION

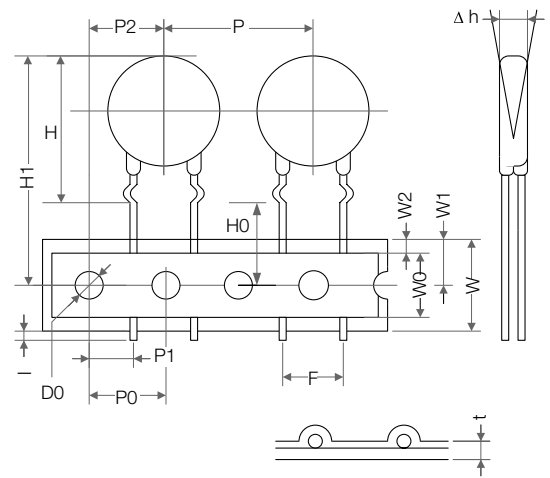
Symbol	Parameter	Model Size					
		05D	07D	10D	14D	20D(E7.5)	20D(E10)
P	Pitch of Component	12.7±1.0	12.7±1.0	25.4±1.0	25.4±1.0	25.4±1.0	25.4±1.0
P0	Feed Hole Pitch	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2
P1	Feed Hole Center to Pitch	3.85±0.7	3.85±0.7	8.95±0.7	8.95±0.7	8.95±0.7	7.77±0.7
P2	Hold Center to Component Center	6.35±0.7	6.35±0.7	12.7±0.7	12.7±0.7	12.7±0.7	12.7±0.7
F	Lead to Lead Distance	5.0±0.8	5.0±0.8	7.5±0.8	7.5±0.8	7.5±0.8	10.0±0.8
△ h	Component Alignment	2.0max.	2.0max.	2.0max.	4.0max.	4.0max.	4.0max.
W	Tape Width	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5
W0	Hole Down Tape Width	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8
W1	Hole Position	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5
W2	Hole Down Tape Position	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.
H	Height from Tape Center to Component Base	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0
H1	Component Height	30.0max.	32.0max.	36.0max.	40.0max.	47.0max.	47.0max.
D0	Feed Hole Diameter	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2
t	Total Tape Thickness	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3
L	Length of Clipped Height	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.

Taping II

05D, 07D Series



10D, 14D, 20D Series



SPECIFICATION

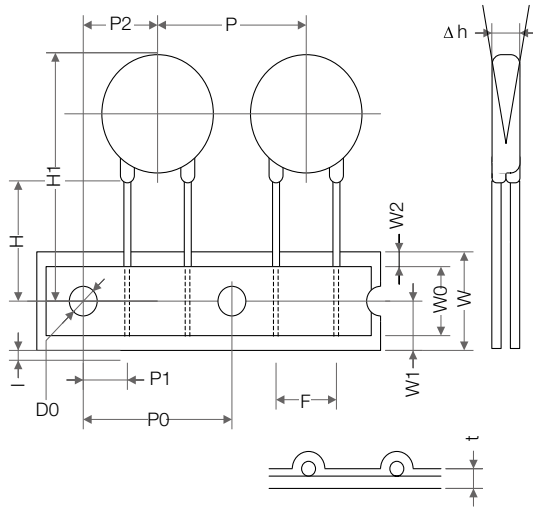
Symbol	Parameter	Model Size					
		05D	07D	10D	14D	20D(E7.5)	20D(E10)
P	Pitch of Component	12.7±1.0	12.7±1.0	25.4±1.0	25.4±1.0	25.4±1.0	25.4±1.0
P0	Feed Hole Pitch	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2
P1	Feed Hold Center to Pitch	3.85±0.7	3.85±0.7	8.95±0.7	8.95±0.7	8.95±0.7	7.77±0.7
P2	Hold Center to Component Center	6.35±0.7	6.35±0.7	12.7±0.7	12.7±0.7	12.7±0.7	12.7±0.7
F	Lead to Lead Distance	5.0±0.8	5.0±0.8	7.5±0.8	7.5±0.8	7.5±0.8	10.0±0.8
Δ h	Component Alignment	2.0max.	2.0max.	2.0max.	4.0max.	4.0max.	4.0max.
W	Tape Width	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5
W0	Hole Down Tape Width	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8
W1	Hole Position	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5
W2	Hole Down Tape Position	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.
H	Height from Tape Center to Component Base	13.0max.	13.5max.	17.5max.	21.0max.	28.0max.	28.0max.
H0	Seating Plane Height	16.0±0.5	16.0±0.5	16.0±0.5	16.0±0.5	16.0±0.5	16.0±0.5
H1	Component Height	30.0max.	32.0max.	36.0max.	40.0max.	47.0max.	47.0max.
D0	Feed Hole Diameter	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2
t	Total Tape Thickness	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3
L	Length of Clipped Height	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.

* Above 14D561K, H1max. = 23.0 mm

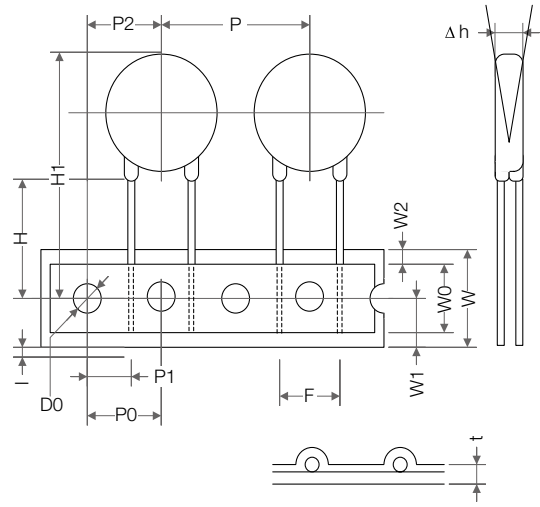
** Above 20D561K, H1max. = 30.0 mm

Taping III

05D, 07D Series



10D, 14D, 20D Series

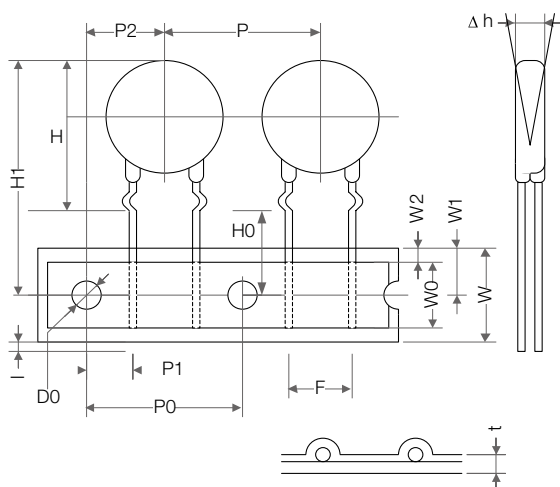


SPECIFICATION

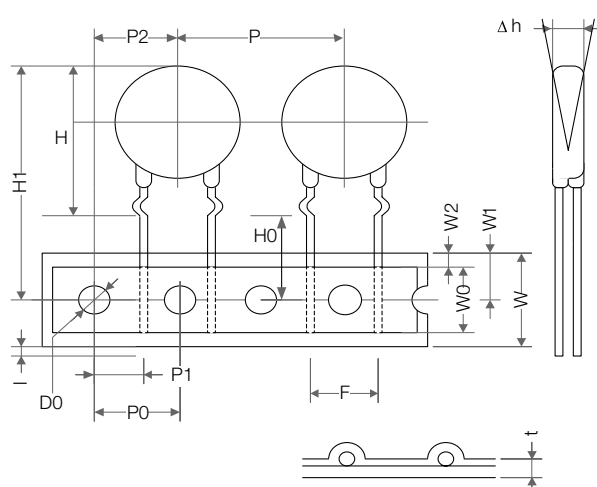
Symbol	Parameter	Model Size					
		05D	07D	10D	14D	20D(E7.5)	20D(E10)
P	Pitch of Component	12.7±1.0	12.7±1.0	25.4±1.0	25.4±1.0	25.4±1.0	25.4±1.0
P0	Feed Hole Pitch	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2
P1	Feed Hold Center to Pitch	3.85±0.7	3.85±0.7	8.95±0.7	8.95±0.7	8.95±0.7	7.77±0.7
P2	Hold Center to Component Center	6.35±0.7	6.35±0.7	12.7±0.7	12.7±0.7	12.7±0.7	12.7±0.7
F	Lead to Lead Distance	5.0±0.8	5.0±0.8	7.5±0.8	7.5±0.8	7.5±0.8	10.0±0.8
△ h	Component Alignment	2.0max.	2.0max.	2.0max.	4.0max.	4.0max.	4.0max.
W	Tape Width	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5
W0	Hole Down Tape Width	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8
W1	Hole Position	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5
W2	Hole Down Tape Position	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.
H	Height from Tape Center to Component Base	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0
H1	Component Height	30.0max.	32.0max.	36.0max.	40.0max.	47.0max.	47.0max.
D0	Feed Hole Diameter	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2
t	Total Tape Thickness	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3
L	Length of Clipped Height	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.

Taping IV

05D, 07D Series



10D, 14D, 20D Series



SPECIFICATION

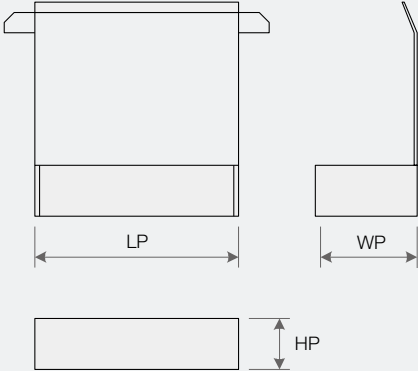
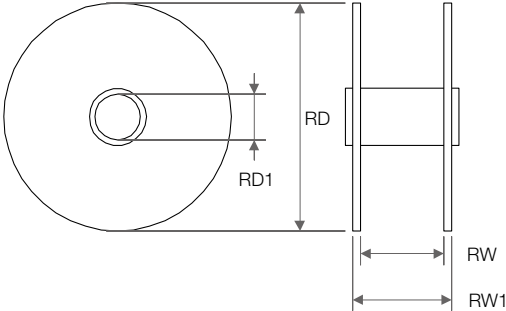
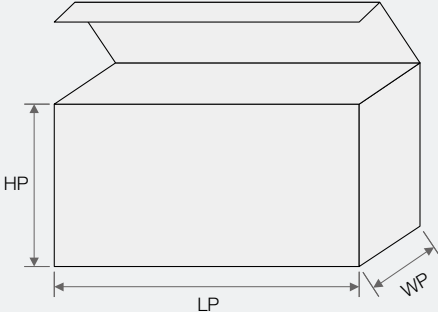
Symbol	Parameter	Model Size					
		05D	07D	10D	14D	20D(E7.5)	20D(E10)
P	Pitch of Component	12.7±1.0	12.7±1.0	25.4±1.0	25.4±1.0	25.4±1.0	25.4±1.0
P0	Feed Hole Pitch	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2
P1	Feed Hold Center to Pitch	3.85±0.7	3.85±0.7	8.95±0.7	8.95±0.7	8.95±0.7	7.77±0.7
P2	Hold Center to Component Center	6.35±0.7	6.35±0.7	12.7±0.7	12.7±0.7	12.7±0.7	12.7±0.7
F	Lead to Lead Distance	5.0±0.8	5.0±0.8	7.5±0.8	7.5±0.8	7.5±0.8	10.0±0.8
Δ h	Component Alignment	2.0max.	2.0max.	2.0max.	4.0max.	4.0max.	4.0max.
W	Tape Width	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5
W0	Hole Down Tape Width	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8
W1	Hole Position	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5
W2	Hole Down Tape Position	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.	3.0max.
H	Height from Tape Center to Component Base	13.0max.	13.5max.	17.5max.	21.0max.	28.0max.	28.0max.
H0	Seating Plane Height	16.0±0.5	16.0±0.5	16.0±0.5	16.0±0.5	16.0±0.5	16.0±0.5
H1	Component Height	30.0max.	32.0max.	36.0max.	40.0max.	47.0max.	47.0max.
D0	Feed Hole Diameter	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2
t	Total Tape Thickness	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3
L1	Length of Clipped to Tape	2.0min.	2.0min	2.0min	2.0min	2.0min	2.0min

* Above 14D561K, H1max. = 23.0 mm

** Above 20D561K, H1max. = 30.0 mm

Packing

SPECIFICATION

Packing	Configuration	Symbol	05D – 20D	
BOX		LP	250	
		WP	170	
		HP	60	
REEL		05D, 07D		10D—20D
		RD	355	355
		RD1	30	30
		RW	47	55
		RW1	53	63
AMMO		LP	340	
		WP	50	
		HP	250	

Quantity Per Packing Unit

SPECIFICATION

Packing	Quantity (pcs)												
	5Ø		7Ø		10Ø		14Ø			20Ø			
	180 391	431 561	180 391	431 821	180 391	431 182	180 391	431 821	911 182	180 331	361 431	471 821	911 182
BOX I*	2000	2000	2000	2000	1000	1000	1000	500	400	500	400	300	200
BOX II**	4000	4000	4000	4000	1000	1000	1000	500	400	500	400	300	200
REEL	2000	2000	2000	1500	1000	500	1000	500	-	500	500	-	-
AMMO	1500	1500	1500	1500	500	500	500	500	-	500	500	-	-

BOX I* : Standard lead type BOX II** : Short lead type

Quantity Per Packing Carton

SPECIFICATION

Packing	Quantity (pcs)												
	5Ø		7Ø		10Ø		14Ø			20Ø			
	180 391	431 561	180 391	431 821	180 391	431 182	180 391	431 821	911 182	180 331	361 431	471 821	911 182
BOX I*	20000	20000	20000	20000	10000	10000	10000	5000	4000	5000	4000	3000	2000
BOX II**	40000	40000	40000	40000	10000	10000	10000	5000	4000	5000	4000	3000	2000
REEL	20000	20000	20000	15000	8000	4000	8000	4000	-	4000	4000	-	-
AMMO	7500	7500	7500	7500	2500	2500	2500	2500	-	2500	2500	-	-