

# Aluminum Electrolytic Capacitors



**HTRT Series**  
(High Temperature, Axial)

**MERITEK**

## FEATURES

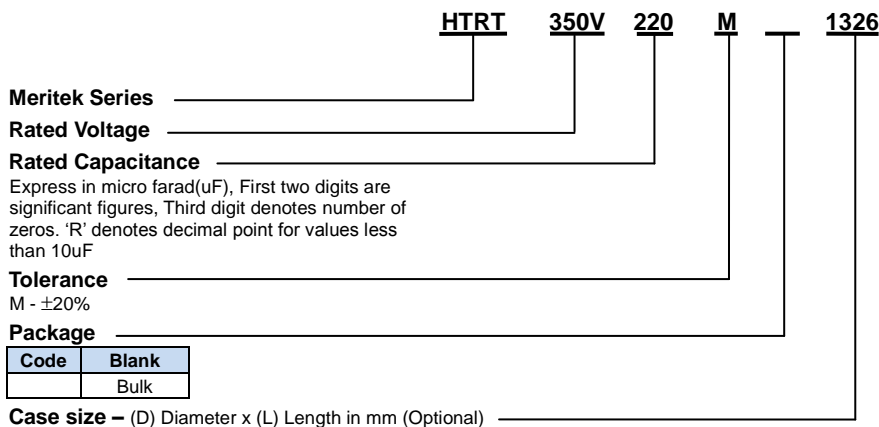
- Axial lead type of standard series for general purpose
- Guaranteed long life 1,000hrs, 105°C
- Expanded applications for automatic mounting
- Anti-solvent



## SPECIFICATIONS

Item	Characteristics											
Operating Temp Range	-40°C ~+105°C (6.3V~400V), -25°C ~+105°C (450V)											
Rated Working Voltage	6.3V~450V											
Rated Capacitance	0.47uF~22000uF											
Capacitance Tolerance	± 20%(M) @120Hz 20°C											
Leakage Current	6.3WV~100WV						160WV~450WV					
	I=0.03CV, or 4 (uA), whichever is greater, after 1 minute application of rated voltage I=0.01CV or 3 (uA), whichever is greater, after 2 minutes application of rated voltage						CV≤1000: I=0.1CV+40(uA) or less after 1 minute application of rated voltage CV>1000: I=0.04CV+100(uA) or less after 1 minute application of rated voltage					
Dissipation Factor ( tan δ )	<b>Rated Voltage (V)</b>	6.3	10	16	25	35	50	63	100	160~350	400~450	
	<b>tan δ (MAX)</b>	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.20	0.25	
	For capacitance of more than 1000uF, add 0.02 for every increase of 1000uF (120Hz: 20°C)											
Low Temperature Stability	Impedance Ratio (120Hz)											
	<b>Rated Voltage (V)</b>	6.3	10	16	25	35	50~100	160~200	250	315~400	450	
	<b>Z(-25°C)/Z(20°C)</b>	4	3	2	2	2	2	3	3	3	5	
	<b>Z(-40°C)/Z(20°C)</b>	10	8	6	4	3	3	6	6	6	-	
Load Life	After 1000 hours of application of rated voltage at 105°C, capacitors meet the characteristics requirements mentioned below											
	<b>Capacitance Change</b>	≤ ±20% of initial value										
	<b>Dissipation Factor</b>	200% or less of initial specified value										
	<b>Leakage Current</b>	≤ initial specified value										
Shelf Life	After leaving capacitors under no load at 105°C, for 1000 hours and applying voltage according to JIS C-5102 4-3, they meet the specified value for load life characteristics listed above											
Applicable Standards	Characteristics W of JIS C-5141											

## PART NUMBER SYSTEM



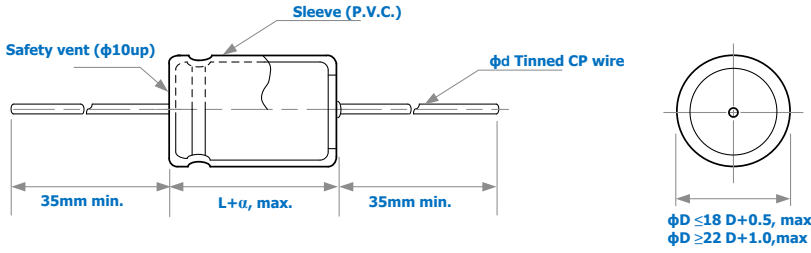
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## DIMENSIONS (mm)



φD		5~12.5	16~18	22~25
d		0.6	0.8	0.8
α	6.3~100WV	1.0		2.0
	160WV~	2.0		-

## RIPPLE CURRENT COEFFICIENTS

W.V.	6.3~100			160~450
Cap(uF)	~47	100~470	1000~22000	1~100
Frequency (Hz)	50	0.75	0.80	0.85
	120	1	1	1
	300	1.35	1.23	1.10
	1k	1.57	1.34	1.13
	10k~	2.00	1.50	1.15
Temperature	~ +70°C		+105°C	
Multiplier	1.27		1.0	

## CASE SIZE & MAX RIPPLE CURRENT

Case size : DxL (mm)  
Max. ripple current : mA(rms) 105°C 120Hz

Cap. (uF)	V	6.3		10		16		25		35		50		63		100	
		Item	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL
0.47												5x12.5	5			5x12.5	10
1.0												5x12.5	10			5x12.5	21
2.2												5x12.5	23			5x12.5	27
3.3												5x12.5	30			5x12.5	35
4.7												5x12.5	36	5x12.5	38	5x12.5	40
10								5x12.5	40	5x12.5	45	5x12.5	50	5x12.5	55	6.3x12.5	65
22						5x12.5	60	5x12.5	65	5x12.5	70	6.3x12.5	85	6.3x12.5	90	8x16	115
33				5x12.5	70	5x12.5	75	5x12.5	80	6.3x12.5	95	6.3x16	115	6.3x16	125	8x16	145
47				5x12.5	80	5x12.5	90	6.3x12.5	105	6.3x16	125	6.3x16	140	8x16	160	8x20	190
100		5x12.5	110	6.3x12.5	130	6.3x12.5	145	6.3x16	170	8x16	200	8x16	220	8x20	260	10x26	340
220		6.3x16	200	6.3x16	220	8x16	260	8x16	280	8x20	340	10x21	410	10x26	480	12.5x26	560
330		6.3x16	250	8x16	300	8x16	320	8x20	380	10x21	460	10x26	560	12.5x26	640	12.5x31	740
470		8x16	330	8x16	350	8x20	430	10x26	560	10x26	610	13x26	730	12.5x31	830	16x31	960
1000		10x21	600	10x21	640	10x26	770	12.5x26	900	12.5x31	1050	16x31	1250	16x31	1320	22x41	1700
2200		12.5x26	1020	12.5x26	1090	12.5x31	1280	16x31	1470	16x31	1570	18x41	1920	22x41	2150	25x51	2590
3300		12.5x26	1200	12.5x31	1380	16x31	1610	16x41	1910	16x41	2020	22x41	2340	22x51	2450		
4700		16x31	1630	16x31	1720	16x41	2060	18x41	2170	22x41	2460	22x51	2630	25x61	3180		
6800		16x31	1830	16x41	2160	18x41	2290	22x41	2560	22x51	2700	25x61	3310				
10000		16x41	2290	16x41	2390	22x41	2680	22x51	2800	25x61	3400						
15000		22x41	2630	22x41	2750	22x51	2890	25x61	3480								
22000		22x51	2830	22x51	2940	25x61	3570										

Cap. (uF)	V	160		200		250		315		350		400		450	
		Item	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL
1.0		6.3x12.5	13	6.3x12.5	13	6.3x16	15	6.3x16	15	6.3x16	15	8x16	16	8x16	16
2.2		6.3x16	23	6.3x16	23	8x16	27	8x16	27	8x16	27	8x20	27	10x21	31
3.3		8x16	33	8x16	33	8x16	33	8x20	37	8x20	37	10x21	38	10x21	38
4.7		8x16	39	8x16	45	8x20	45	8x20	45	10x21	50	10x21	45	10x26	50
10		8x20	60	10x21	70	10x21	70	10x26	80	12.5x26	90	12.5x26	85	12.5x26	85
22		10x26	120	12.5x26	140	12.5x26	140	12.5x31	150	12.5x31	150	16x31	150	16x31	150
33		12.5x26	170	12.5x26	190	12.5x31	190	16x31	210	16x31	210	16x41	220	18x41	230
47		12.5x31	220	12.5x31	250	16x31	250	16x31	250	16x41	290	18x41	280		
100		16x41	420	16x41	420	16x41	420								