HPM Series





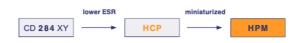








- · Miniaturized Solid Aluminium Electrolytic Capacitor with Conductive Polymer
- · Ultra ESR
- · High Ripple Current
- Switchmode Power Supplies, Computer, DC/DC Converter
- · Noise Suppression in Smoothing / High-Frequency Circuits





Item	Characteristics					
Operating Temperature Range (°C)	-55 ~ +105					
Voltage Range (V)	2,5 ~ 6,3					
Capacitance Range (µF)	560 ~ 1500					
Capacitance Tolerance (20°C, 120Hz)	± 20%					
Surge Voltage	Rated Voltage x 1,15					
Leakage Current (μA) The initial specified value or less (20°C, 2min)						
Dissipation Factor (20°C, 120Hz)	The initial specified value or less					
Equivalent Series Resistance (20°C, 100kHz)	The initial specified value or less					
Townsontone Characteristics	Z (+105°C) / Z (+20°C) ≥ 0,75 Stability at 100kHz					
Temperature Characteristics	Z (-55°C) / Z (+20°C) ≤ 1,25 Stability at 100kHz					
Load Life	2 000h, Rated voltage applied at 105°C Capacitance change: within ± 20% of the initial measured value Dissipation Factor Tan δ: ≤150% of initial specified value ESR: ≤150% of initial specified value DC Leakage Current: ≤ the initial specified value					
	500h, Rated Voltage applied at 60°C, 90~95% RH					
Moisture Resistance	Capacitance change: within ± 20% of the initial measured value Dissipation Factor Tan δ: ≤150% of initial specified value ESR: ≤150% of initial specified value DC Leakage Current: ≤ the initial specified value					
Surge Voltage Characteristics	1000 cycles at 105°C, with U _{DC} = 1,15 U _R (30sec load / 330sec discharge) Capacitance change: within ± 20% of the initial measured value Dissipation Factor Tan δ: ≤150% of initial specified value ESR: ≤150% of initial specified value DC Leakage Current: ≤ the initial specified value					

Ratings for **HPM** Series

V _{DC} Code	Rated Capacitance	Max ESR 20°C, 100kHz	Max Ripple Current 105°C, 100kHz	Dissipation Factor 20°C, 120Hz	Leakage Current	Size Ø D x L
(V)	(μF)	(mΩ)	(mArms)	-	(μΑ)	(mm)
	560	7	4400	0,12	500	8 x 8
2,5	820	7	5600	0,12	513	8 x 8
0E	1000	7	5600	0,12	625	8 x 8
	1500	7	5600	0,12	750	8 x 8
4	560	7	5600	0,12	560	8 x 8
0G	820	7	5600	0,12	820	8 x 8
6,3 0J	680	7	5600	0,12	857	8 x 8

Part Number System









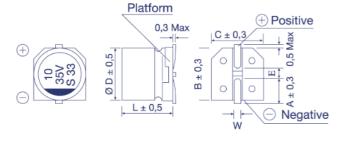


Order Code SMD, Radial, Snap-In

EC	R	1C	P.	Т	101	М	ı	FF		25	06	611	JExxxxx
Technology	Terminal Type	Rated Voltage Code	Series	Code	Capacitance Code (in µF)	Capaci Tolera		Lead Form		Terminal/ Pitch Size	Dime	ension	for Specials only
EC = Electrolytic	SMD = V	For coding	CD VS	= BS	0,47 = R47	±20%	= M	SMD:			4x7	= 0407	
Capacitor	Radial = R	please refer to the pages	CD VH	= VH	1,0 = 010	±10%	= K	Taped :	= FF	Terminal = T2	5x11,5	= 0511	
PC = Polymer	Snap-In = S	of ratings	CD VZ	= VZ	2,2 = 2R2	+30 / -10	% = Q	Radial:			6,3x11,5	5 = 0611	
Capacitor			CD 261	= LK	100 = 101	+50 / -10	% = T	Long Lead :	= LL	2,0mm = 20	35x80	= 3580	
			CD 261)	(= QX	1000 = 102			Cut 5,0mm	= CB	2,5mm = 25	45x100	= 45100	
			CD 262	= QM	10000 = 103			Cut 4,5mm	= CC	3,5mm = 35			
			CD 263	= BK				Cut 4,0mm	= CD	5,0mm = 50			
			CD 269	= PH				Cut 3,5mm :	= CE	7,5mm = 75			
			CD 281	= LL				Cut 3,0mm	= CF	10,0mm = 10			
			CD 284	= XY				on request: alternative lead for (axial, 90° - angle, oth		12,5mm = 12			
			CD 287	= GC				(axiai, ou - arigie, ou	ioloj				
			CD 28L	= QL				Snap-In:					
			CD 293	= BZ				4,0mm Pin Length	= T4	2 Pin = P2			
			CD 294	= BW				6,3mm Pin Length	= T6	3 Pin = P3			
			CD 295	= BC				Soldering Pin	= S4	4 Pin = P4			
			CD 296	= KC						5 Pin = P5			
			CD 297	= BB				preferred					
			CD 299	= PG									
			CD 29D	= HR									
			CD 29H	= QH									
			CD 29L	= QL									
			НСР	= CP									
			HPM	= PM									
			HVC	= VC									

Technical Specification SMD Type

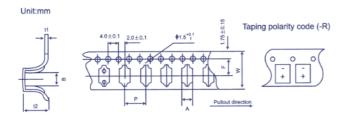
Dimensions



ØDxL	4 x 5,4	5 x 5,4	6,3 x 5,4	6,3 x 7,7	8 x 10,5	8 x 11,8	10 x 10,5	10 x 12,7
Α	1,8	2,1	2,4	2,5	2,9	2,9	3,2	3,2
В	4,3	5,3	6,6	6,6	8,3	8,4	10,3	10,4
С	4,3	5,3	6,6	6,6	8,3	8,4	10,3	10,4
E	1,0	1,3	2,2	2,2	3,1	3,1	4,5	4,5
L	5,4	5,4	5,4	7,7	10,5	11,8	10,5	12,7
W		0,5	- 0,8			0,7	- 1,1	

in mm

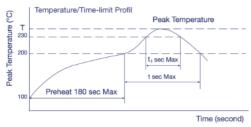
Taping Dimensions



Size (DxL)	w ± 0,3	A ± 0,2	B ± 0,2	P ± 0,1	t2 ± 0,2	F ± 0,1	t1 ± 0,1
4 x 5,4	12,0	5,0	5,0	8,0	5,8	5,5	0,4
5 x 5,4	12,0	6,0	6,0	12,0	5,8	5,5	0,4
6,3 x 5,4	16,0	7,0	7,0	12,0	5,8	7,5	0,4
6,3 x 7,7	16,0	7,0	7,0	12,0	8,4	7,5	0,4
8 x 10,5	24,0	8,7	8,7	16,0	11,0	11,5	0,5
8 x 11,8	24,0	8,7	8,7	16,0	12,3	11,5	0,5
10 x 10,5	24,0	10,7	10,7	16,0	11,0	11,5	0,5
10 x 12,7	24,0	10,7	10,7	16,0	14,0	11,5	0,5

in mm

Soldering Profile (Aluminium Electrolytic Capacitors)



Α	llowable Ra	inge of Peak	Temperature	
	Size	T (°C)	t (second)	t ₁ (second)

Diameter	w	D
4; 5	14 ± 1	50 ± 1
6,3	18 ± 1	50 ± 1
8; 10	25 ± 1	50 ± 1
Polymer	25 ± 1	80 ± 1

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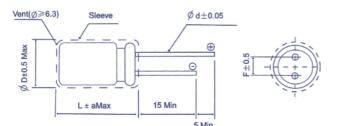


Part Number System

Technical Specification Radial Type

Dimensions for loose, long-lead type, (bulk)

Order Code: LL



L	L ≤ 7 L ≥ 11														
ØD	3	4 5 6,3 8				5	6,3	8	10 12,5		16	18	20	22	25
F	1	1,5 2,0 2,5 3,5				2,0	2,5	3,5	5	,0	7,5		10,0 12,5		12,5
Ød	0,4 0,45				0,5 0,6 0,8 1,0										
a _{Max}	1,0								2,	0					

in mm

Dimensions for Ammopack taping

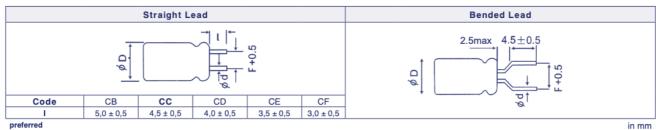
Order Code: FF (FD)

Code	Case Range			Dimer	sions		Form	Ammopack		
Code	ØD	L (max)	H ± 0,75	Ho ± 0,5	F ± 0,5	P ± 0,1	FOITIII		Ашшораск	
	4~6	13	18,5	-	2,5	12,7	A	Form A		
	8	13	18,5	-	3,5	12,7	^	_		
	4~8	7	17,5						Φ Φ Φ Φ Δ	
FF	5 ~ 6,3	13	18,5	16		12,7	В	Form B		
	8	22	20,0		5	12,7				
	10	22	18,5	-	3		A) [
	12,5	27	18,5	-		15,0		Form C	P &D	
FD	12,5	27	18,5	-		25,4	С			
FF	16 ~ 18	27	18,5	-	7,5	30,0			,	

in mm

Dimensions for loose, short cut leads, (bulk)

Order Code: CC (CB,CD,CE,CF)



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