

Volt d.c.	µF	Order Code	Price Each		
			1+	50+	100+
10	47000	248-083			
16	10000	NEW 334-8064			
16	22000	NEW 334-8076			
16	33000	248-101			
25	4700	321-6482			
25	10000	248-113			
25	22000	248-125			
40	3300	321-6494			
40	4700	248-137			
40	6800	248-149			
40	10000	248-150			
63	2200	248-162			
63	3300	248-174			
63	4700	248-186			
63	6800	248-198			
100	330	321-6500			
100	1000	248-204			
100	2200	248-216			
100	3300	248-228			
200	220	321-6512			
200	470	248-230			
200	1000	248-253			
385	47	321-6524			
385	100	248-265			
385	220	248-277			
385	330	248-289			
400	47	321-6536			
400	68	321-6548			
400	100	321-6550			
400	150	321-6561			
400	220	321-6573			
400	330	321-6585			

Volt d.c.	µF	Order Code	Price Each				
			1+	10+	50+	100+	250+
16	10000	.578-897					
16	15000	319-8418					
16	22000	.578-903					
16	47000	319-8420					
16	56000	319-8431					
25	10000	319-8443					
25	15000	319-8455					
25	22000	319-8467					
35	3300	319-8479					
35	4700	319-8480					
35	6800	.578-915					
35	22000	319-8492					
50	2700	319-8509					
50	4700	319-8510					
50	6800	319-8522					
50	10000	319-8534					
63	3300	319-8546					
35	10000	.578-927					
63	2200	.578-939					
63	4700	.578-940					
63	6800	319-8558					
63	10000	319-8560					
100	560	319-8571					
100	1000	.578-952					
100	1000	319-8583					
100	1500	319-8595					
100	2200	.578-964					
100	4700	319-8601					
160	470	319-8613					
160	1000	319-8625					
160	1200	319-8637					
200	220	.578-976					
200	330	.578-988					
200	470	.578-990					
200	680	.579-002					
200	1000	.579-014					
400	68	.579-026					
400	100	.579-038					
400	220	.579-040					
400	330	.579-051					

TSHA Series – 105°C (PCB Mounting – Snap-In) **Panasonic**



- High temperature snap-in capacitors offering high performance in a compact size

Lead pitch = 10
Mounting hole dia. = 2.0


Operating temperature	-40°C to +105°C (10 to 200V) -25°C to +105°C (400V)	DC leakage current	≤ 3√CV µA
Tolerance	±20%	Power factor	16V 0.45 35V 0.30 63V 0.20 100-400V 0.15
Operating life @ 105°C	2000 hrs		

Volt d.c.	µF	Ripple (A) @ 120Hz, 105°C	Dimensions		Mfrs. List No.	Order Code
			H	Dia.		
16	10000	2.6	30	22	ECOS1CA103BA	578-897
16	15000	3.2	35	25	ECOS1CA153CA	319-8418
16	22000	3.8	45	25	ECOS1CA223CA	578-903
16	47000	5.5	45	35	ECOS1CA473EA	319-8420
16	56000	6.0	50	35	ECOS1CA563EA	319-8431
25	10000	3.0	35	25	ECOS1EA103CA	319-8443
25	15000	3.6	35	30	ECOS1EA153DA	319-8455
25	22000	4.3	35	35	ECOS1EA223EA	319-8467
35	3300	1.9	25	22	ECOS1VA332BA	319-8479
35	4700	2.2	25	25	ECOS1VA472CA	319-8480
35	6800	2.6	40	22	ECOS1VA682BA	578-915
35	10000	3.2	45	25	ECOS1VA103CA	578-927
35	22000	5.0	50	35	ECOS1VA223EA	319-8492
50	2700	1.8	30	22	ECOS1HA272BA	319-8509
50	4700	2.5	30	30	ECOS1HA472DA	319-8510
50	6800	3.3	50	25	ECOS1HA682CA	319-8522
50	10000	4.0	40	35	ECOS1HA103EA	319-8534
63	3300	2.5	40	25	ECOS1JA332CA	319-8546
63	2200	2.0	35	22	ECOS1JA222BA	578-939
63	4700	3.0	50	25	ECOS1JA472CA	578-940
63	6800	3.6	40	35	ECOS1JA682EA	319-8558
63	10000	4.4	50	35	ECOS1JA103EA	319-8560
100	560	1.1	25	22	ECOS2AA561BA	319-8571
100	1000	1.7	35	22	ECOS2AA102BA	578-952
100	1000	1.7	30	25	ECOS2AA102CA	319-8583
100	1500	2.1	45	22	ECOS2AA152BA	319-8595
100	2200	2.6	50	25	ECOS2AA222CA	578-964
100	4700	3.8	50	35	ECOS2AA472EA	319-8601
160	470	1.4	35	22	ECOS2CA471BA	319-8613
160	1000	2.2	35	30	ECOS2CA102DA	319-8625
160	1200	2.3	40	30	ECOS2CA122DA	319-8637
200	220	1.0	25	22	ECOS2DA221BA	578-976
200	330	1.2	30	22	ECOS2DA331BA	578-988
200	470	1.4	35	25	ECOS2DA471CA	578-990
200	680	1.7	40	25	ECOS2DA681CA	579-002
200	1000	2.2	45	30	ECOS2DA102DA	579-014
400	68	0.56	30	22	ECOS2GA680BA	579-026
400	100	0.69	35	22	ECOS2GA101BA	574-038
400	220	1.0	50	25	ECOS2EA221CA	579-040
400	330	1.2	50	30	ECOS2GA331DA	579-051

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Any Questions?

Our technical help desk will provide the answers, free of charge.
Please call (65) 788 1922
or e-mail singapore-technical@farnell.com



For Ring Terminals
See Book 3 Section 10.