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SOLID STATE COOLING WITH THERMOELECTRICS

Thermoelectric (Peltier) Heat Pump Module Specifications—FC Series

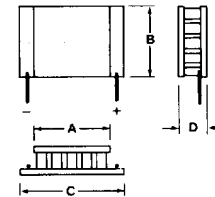
FC SERIES

Catalog Number	I max Amps	Hot Face Th = 25°C				Universal Multipliers			Dimensions, mm			
		Q max ⁽¹⁾ (watts)	V max (volts)	ΔT max (°C)	N No. of Couples	G Geometry Factor	G x N		A	B	C ⁽²⁾	D ⁽³⁾
STANDARD AND OPTION 2	FC 0.45-4-05	0.80	0.22	0.48	67	4	.016	0.06	1.8	3.4	3.4	2.4
	FC 0.45-8-05	0.80	0.43	0.97	67	8	.016	0.13	3.4	3.4	5.0	2.4
	FC 0.45-12-05	0.80	0.65	1.45	67	12	.016	0.19	3.4	5.0	5.0	2.4
	FC 0.45-18-05	0.80	0.97	2.18	67	18	.016	0.29	5.0	5.0	6.6	2.4
	FC 0.45-32-05	0.80	1.72	3.87	67	32	.016	0.51	6.6	6.6	8.3	2.4
	FC 0.45-66-05	0.80	3.56	7.98	67	66	.016	1.06	9.9	9.1	11.5	2.4
	FC 0.6-4-06	1.20	0.32	0.48	67	4	.024	0.10	2.2	4.2	4.2	2.7
	FC 0.6-8-06	1.20	0.65	0.97	67	8	.024	0.19	4.2	4.2	6.2	2.7
	FC 0.6-12-06	1.20	0.97	1.45	67	12	.024	0.29	4.2	6.2	6.2	2.7
	FC 0.6-18-06	1.20	1.46	2.18	67	18	.024	0.43	6.2	6.2	8.3	2.7
	FC 0.6-32-06	1.20	2.59	3.87	67	32	.024	0.77	8.3	8.3	10.3	2.7
	FC 0.6-66-06	1.20	5.34	7.98	67	66	.024	1.58	12.3	11.3	14.4	2.7
STANDARD AND OPTION 1	FC 0.6-4-05	1.50	0.40	0.48	67	4	.030	0.12	2.2	4.2	4.2	2.4
	FC 0.6-8-05	1.50	0.81	0.87	67	8	.030	0.24	4.2	4.2	6.2	2.4
	FC 0.6-12-05	1.50	1.21	1.45	67	12	.030	0.36	4.2	6.2	6.2	2.4
	FC 0.6-18-05	1.50	1.82	2.18	67	18	.030	0.54	6.2	6.2	8.3	2.4
	FC 0.6-32-05	1.50	3.23	3.87	67	32	.030	0.96	8.3	8.3	10.3	2.4
	FC 0.6-66-05	1.50	6.67	7.98	67	66	.030	1.98	12.3	11.3	14.4	2.4
	FC 0.7-4-05	2.00	0.54	0.48	67	4	.040	0.16	2.4	4.7	4.7	2.4
	FC 0.7-8-05	2.00	1.08	0.97	67	8	.040	0.32	4.7	4.7	7.0	2.4
	FC 0.7-12-05	2.00	1.62	1.45	67	12	.040	0.48	4.7	7.0	7.0	2.4
	FC 0.7-18-05	2.00	2.43	2.18	67	18	.040	0.72	7.0	7.0	9.3	2.4
	FC 0.7-32-05	2.00	4.31	3.87	67	32	.040	1.28	9.3	9.3	11.6	2.4
	FC 0.7-66-05	2.00	8.62	7.98	67	66	.040	2.56	12.3	11.3	14.4	2.4
OPTION 1	FC 0.45-7-05-1	0.80	0.38	0.85	67	7	.016	0.11	3.4	3.4	3.4	2.4
	FC 0.45-11-05-1	0.80	0.60	1.33	67	11	.016	0.18	3.4	5.0	3.4	2.4
	FC 0.45-17-05-1	0.80	0.92	2.06	67	17	.016	0.27	5.0	5.0	5.0	2.4
	FC 0.45-31-05-1	0.80	1.67	3.75	67	31	.016	0.50	6.6	6.6	6.6	2.4
	FC 0.45-65-05-1	0.80	3.51	7.85	67	65	.016	1.04	9.9	9.1	9.9	2.4
	FC 0.6-7-06-1	1.20	0.57	0.85	67	7	.024	0.17	4.2	4.2	4.2	2.7
	FC 0.6-11-06-1	1.20	0.89	1.33	67	11	.024	0.26	4.2	6.2	4.2	2.7
	FC 0.6-17-06-1	1.20	1.38	2.06	67	17	.024	0.41	6.2	6.2	6.2	2.7
	FC 0.6-31-06-1	1.20	2.51	3.75	67	31	.024	0.74	8.3	8.3	8.3	2.7
	FC 0.6-65-06-1	1.20	5.26	7.86	67	65	.024	1.56	12.3	11.3	12.3	2.7
	FC 0.6-7-05-1	1.50	0.71	0.85	67	7	.030	0.21	4.2	4.2	4.2	2.4
	FC 0.6-11-05-1	1.50	1.11	1.33	67	11	.030	0.33	4.2	6.2	4.2	2.4
	FC 0.6-17-05-1	1.50	1.72	2.08	67	17	.030	0.51	6.2	6.2	6.2	2.4
	FC 0.6-31-05-1	1.50	3.13	3.75	67	31	.030	0.93	8.3	8.3	8.3	2.4
	FC 0.6-65-05-1	1.50	6.57	7.86	67	65	.030	1.95	12.3	11.3	12.3	2.4
OPTION 1	FC 0.7-7-05-1	2.00	0.95	0.85	67	7	.040	0.28	4.2	4.2	4.2	2.4
	FC 0.7-11-05-1	2.00	1.49	1.33	67	11	.040	0.44	4.2	6.2	4.2	2.4
	FC 0.7-17-05-1	2.00	2.30	2.06	67	17	.040	0.68	6.2	6.2	6.2	2.4
	FC 0.7-31-05-1	2.00	4.18	3.75	67	31	.040	1.24	8.3	8.3	8.3	2.4

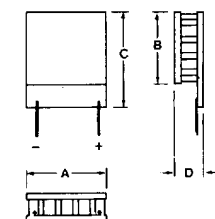
WIRE STANDARDS

Module Type	Wire Gauge (AWG)	Length (mm/in.)	Insulation
FC 0.45-ALL	32 (SOLID)	50/2.0	None
FC 0.6-ALL	30 (SOLID)	50/2.0	None
FC 0.7-ALL	30 (SOLID)	50/2.0	None

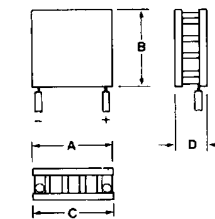
DIMENSIONS



FC Series — Standard



FC Series — Option Two⁽¹⁾



FC Series — Option One

Notes:

- (1) Q max rated value at $\Delta T = 0^\circ$, I max and V max, $T_h = 25^\circ\text{C}$
- (2) Option 2, Dim. C = Dim. B + :
1.7 mm (FC 0.45)
2.1 mm (FC 0.6 and FC 0.7)
- (3) Thickness (D,mm) for Type L only.

Interfacing: Both hot and cold faces lapped flat, TYPE L. Both faces metallized and tinned, TYPE TT. Hybrid, hot face tinned, cold face lapped, TYPE TL. Hot face lapped, cold face tinned, TYPE LT.

See page 4 for performance graphs, examples, and construction specifications.