

Construction

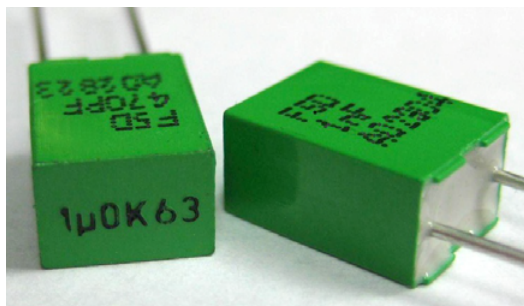
Metallized polyester (MKT) film capacitor with integrated ceramic capacitor encapsulated in thermosetting resin-filled plastic box with tinned wire leads. Box material is solvent resistant and flame retardant according to UL 94 V-0.

Benefits

- Low inductive MKT capacitors in parallel construction with a ceramic capacitor in a single case provides superior suppression results
- Approvals: AEC-Q200, ISO 7637-2
- Rated voltage: 63VDC–100VDC
- Capacitance range: 0.1 μ F to 2.2 μ F
- Pitch: 5mm–10mm
- Capacitance tolerance: $\pm 10\%$, $\pm 20\%$
- Climatic category: 55/125/56 IEC 60068-1
- Tape and reel packaging in accordance with IEC 60286-2
- RoHS compliance and lead-free terminations
- Operating temperature range: -55°C to +125°C

Applications

For worldwide use as EMI/RFI suppressors for automotive motors and other suppression applications such as engine blower fans, central locking systems, heating/air-conditioning blowers, electric sun roofs, electric window regulators, fuel/oil pumps, electric windshield wipers and electrically operated seats. This through-hole EMI/RFI suppression element is mainly used for automotive applications without a printed circuit board (e.g. motor suppression) or mixed through-hole and surface mount printed circuit boards.



Ordering Information

F5D	D	C	3100	DQ	W	5	M
Series	Rated Voltage	Pitch	Capacitance Code (pF)	Mechanical Version and/or Packaging	Ceramic Capacitor Value	Film Capacitance & Size Code	Capacitance Tolerance
Film Capacitor/ Ceramic Capacitor Unit	D = 63VDC E = 100VDC	C = 5mm F = 10mm	Digits 2-4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	See Table 1	See Table 2	See Table 3	K = $\pm 10\%$ M = $\pm 20\%$

Table 1 - Packaging

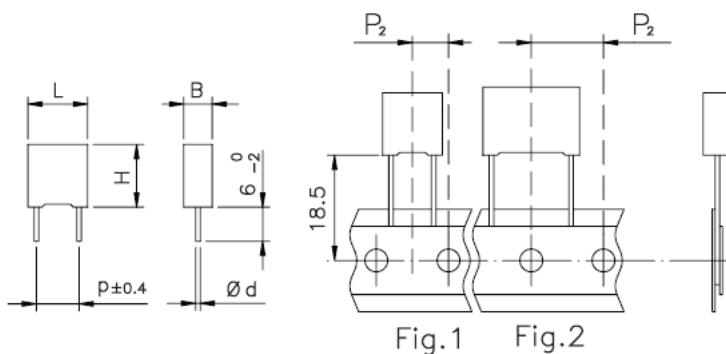
Standard Packaging Style	Lead Length	Taping Style			Ordering Code (Digit 10 to 11)
	(mm)	P2	Fig.	Pitch	
		(mm)	(No)	(mm)	
Ammo Pack		6.35	1	5	DQ
Ammo Pack		1.27	2	10	DQ
Reel Ø 355 mm		6.35	1	5	CK
Reel Ø 500mm		1.27	2	10	CK
Loose, Short Leads	4 ⁺²				AA
Loose, Long Leads	17 ^{+1/-2}				Z3
Other options available on request					

Table 2 - Ceramic Capacitor Value

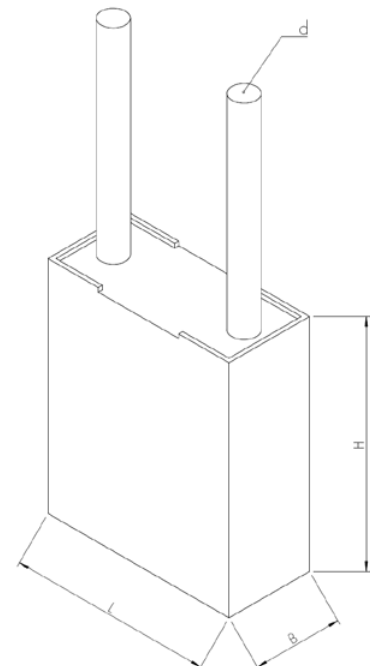
Ceramic Capacitor Value	Digit 12
10 pF	U
22 pF	V
47 pF	W
68 pF	X
100 pF	E
220 pF	G
470 pF	A
680 pF	H
1 nF	C
2.2 nF	F
4.7 nF	B
6.8 nF	N
10 nF	D
22 nF	n/a
47 nF	R
68 nF	T
100 nF	S

Table 3 - Film Capacitance and Size

Rated Capacitance (μF)	Size Code (Digit 13)	Max. Outer Dimensions (mm)			
		B	H	L	p
0.1 to 0.47	5	4.6	9.6	7.4	5.0
0.56 to 1.5	6	5.1	10.1	7.5	5.0
1.8 to 2.2	7	6.1	11.1	7.5	5.0
0.1 to 1.0	2	5.2	11.1	13.4	10.0
1.2 to 1.5	3	6.2	12.1	13.4	10.0



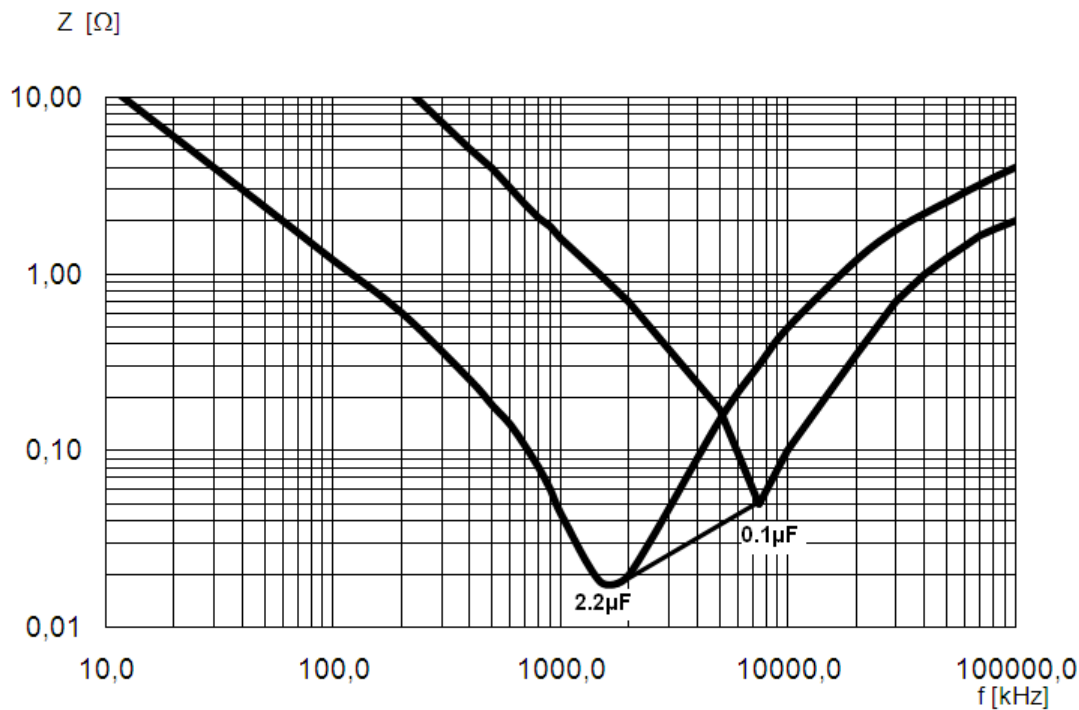
Ød ±0.05	p = 5mm	p = 10mm
	0.6	0.7



Technical Data

Rated Voltage	63 VDC–100VDC (For temperature over 100°C a decreasing factor of 2% per degree has to be applied on the rated voltage V_R)
Capacitance Range	0.1 μ F–2.2 μ F (see Table 2)
Capacitance Tolerance	$\pm 10\%$ (K), $\pm 20\%$ (M)
Temperature Range	-55 °C to +125°C
Climatic Category	55/125/56 IEC 60068-1
Leakage Current	$\leq 10\mu$ A at V_R
Approvals	AEC-Q200, ISO 7637-2
Dissipation Factor	250 at 1 kHz $\text{tg}\delta \times 10^{-4}$ at 25°C $\pm 5^\circ\text{C}$
Test Voltage Between Terminals	1.6 x V_n
Insulation Resistance	100 M Ω @ 50V

Impedance Graph



Environmental Test Data

Test	Conditions	Performance	
Damp Heat Steady State	+40°C ±2°C and 93% ±2% R.H., 56 days	ΔC/C	≤5%
		DF	≤50x10 ⁻⁴ @ 1kHz
		Leakage Current at V _R	≤100μA
Endurance	+125°C ±2°C / 100°C ±2°C, 0.5xVR/1.0xVR, 1000 hours	ΔC/C	≤10%
		DF	≤50x10 ⁻⁴ @ 1kHz
		Leakage Current at V _R	≤100μA
Resistance to Soldering Heat	+125°C ±5°C, 10 ±1s	ΔC/C	≤3%
		DF	≤30x10 ⁻⁴ @ 1kHz
		Leakage Current at V _R	≤50μA
Peak Current Derating	Reference CECC 42000/Test C 2.1, 100 times (2ms), 120s between each current peak	ΔC/C	≤10%
		DF	≤30x10 ⁻⁴ @ 1kHz
		Leakage Current at V _R	≤100μA
Long Term Stability (After 2 Years)	-40°C to +80°C, ≤70% Humidity	ΔC/C	≤3%
		DF	≤20x10 ⁻⁴ @ 1kHz
		Leakage Current at V _R	≤50μA
Reliability	Reference MIL HDB 217 +40°C ±2°C, 0.5xVR, ≤5 FIT	ΔC/C	>10%
		DF	≤20x10 ⁻⁴ @ 1kHz
		Leakage Current at V _R	≤200μA

Environmental Compliance

All KEMET EMI capacitors are RoHS compliant.



RoHS Compliant

Table 4 – Ratings & Part Number Reference

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
63	0.10	10	4.6	9.6	7.4	5.0	F5DDC3100(1)U5(2)
63	0.10	10	5.2	11.1	13.4	10.0	F5DDF3100(1)U2(2)
63	0.10	22	4.6	9.6	7.4	5.0	F5DDC3100(1)V5(2)
63	0.10	22	5.2	11.1	13.4	10.0	F5DDF3100(1)V2(2)
63	0.10	47	4.6	9.6	7.4	5.0	F5DDC3100(1)W5(2)
63	0.10	47	5.2	11.1	13.4	10.0	F5DDF3100(1)W2(2)
63	0.10	68	4.6	9.6	7.4	5.0	F5DDC3100(1)X5(2)
63	0.10	68	5.2	11.1	13.4	10.0	F5DDF3100(1)X2(2)
63	0.10	100	4.6	9.6	7.4	5.0	F5DDC3100(1)E5(2)
63	0.10	100	5.2	11.1	13.4	10.0	F5DDF3100(1)E2(2)
63	0.10	220	4.6	9.6	7.4	5.0	F5DDC3100(1)G5(2)
63	0.10	220	5.2	11.1	13.4	10.0	F5DDF3100(1)G2(2)
63	0.10	470	4.6	9.6	7.4	5.0	F5DDC3100(1)A5(2)
63	0.10	470	5.2	11.1	13.4	10.0	F5DDF3100(1)A2(2)
63	0.10	680	4.6	9.6	7.4	5.0	F5DDC3100(1)H5(2)
63	0.10	680	5.2	11.1	13.4	10.0	F5DDF3100(1)H2(2)
63	0.10	1,000	4.6	9.6	7.4	5.0	F5DDC3100(1)C5(2)
63	0.10	1,000	5.2	11.1	13.4	10.0	F5DDF3100(1)C2(2)
63	0.10	2,200	4.6	9.6	7.4	5.0	F5DDC3100(1)F5(2)
63	0.10	2,200	5.2	11.1	13.4	10.0	F5DDF3100(1)F2(2)
63	0.10	4,700	4.6	9.6	7.4	5.0	F5DDC3100(1)B5(2)
63	0.10	4,700	5.2	11.1	13.4	10.0	F5DDF3100(1)B2(2)
63	0.10	6,800	4.6	9.6	7.4	5.0	F5DDC3100(1)N5(2)
63	0.10	6,800	5.2	11.1	13.4	10.0	F5DDF3100(1)N2(2)
63	0.10	10,000	4.6	9.6	7.4	5.0	F5DDC3100(1)D5(2)
63	0.10	10,000	5.2	11.1	13.4	10.0	F5DDF3100(1)D2(2)
63	0.10	47,000	4.6	9.6	7.4	5.0	F5DDC3100(1)R5(2)
63	0.10	47,000	5.2	11.1	13.4	10.0	F5DDF3100(1)R2(2)
63	0.10	68,000	4.6	9.6	7.4	5.0	F5DDC3100(1)T5(2)
63	0.10	68,000	5.2	11.1	13.4	10.0	F5DDF3100(1)T2(2)
63	0.10	100,000	4.6	9.6	7.4	5.0	F5DDC3100(1)S5(2)
63	0.10	100,000	5.2	11.1	13.4	10.0	F5DDF3100(1)S2(2)
63	0.22	10	4.6	9.6	7.4	5.0	F5DDC3220(1)U5(2)
63	0.22	10	5.2	11.1	13.4	10.0	F5DDF3220(1)U2(2)
63	0.22	22	4.6	9.6	7.4	5.0	F5DDC3220(1)V5(2)
63	0.22	22	5.2	11.1	13.4	10.0	F5DDF3220(1)V2(2)
63	0.22	47	4.6	9.6	7.4	5.0	F5DDC3220(1)W5(2)
63	0.22	47	5.2	11.1	13.4	10.0	F5DDF3220(1)W2(2)
63	0.22	68	4.6	9.6	7.4	5.0	F5DDC3220(1)X5(2)
63	0.22	68	5.2	11.1	13.4	10.0	F5DDF3220(1)X2(2)
63	0.22	100	4.6	9.6	7.4	5.0	F5DDC3220(1)E5(2)
63	0.22	100	5.2	11.1	13.4	10.0	F5DDF3220(1)E2(2)
63	0.22	220	4.6	9.6	7.4	5.0	F5DDC3220(1)G5(2)
63	0.22	220	5.2	11.1	13.4	10.0	F5DDF3220(1)G2(2)
63	0.22	470	4.6	9.6	7.4	5.0	F5DDC3220(1)A5(2)
63	0.22	470	5.2	11.1	13.4	10.0	F5DDF3220(1)A2(2)
63	0.22	680	4.6	9.6	7.4	5.0	F5DDC3220(1)H5(2)
63	0.22	680	5.2	11.1	13.4	10.0	F5DDF3220(1)H2(2)
63	0.22	1,000	4.6	9.6	7.4	5.0	F5DDC3220(1)C5(2)
63	0.22	1,000	5.2	11.1	13.4	10.0	F5DDF3220(1)C2(2)
63	0.22	2,200	4.6	9.6	7.4	5.0	F5DDC3220(1)F5(2)
63	0.22	2,200	5.2	11.1	13.4	10.0	F5DDF3220(1)F2(2)
63	0.22	4,700	4.6	9.6	7.4	5.0	F5DDC3220(1)B5(2)
63	0.22	4,700	5.2	11.1	13.4	10.0	F5DDF3220(1)B2(2)
63	0.22	6,800	4.6	9.6	7.4	5.0	F5DDC3220(1)N5(2)
63	0.22	6,800	5.2	11.1	13.4	10.0	F5DDF3220(1)N2(2)
63	0.22	10,000	4.6	9.6	7.4	5.0	F5DDC3220(1)D5(2)
63	0.22	10,000	5.2	11.1	13.4	10.0	F5DDF3220(1)D2(2)
63	0.22	47,000	4.6	9.6	7.4	5.0	F5DDC3220(1)R5(2)
63	0.22	47,000	5.2	11.1	13.4	10.0	F5DDF3220(1)R2(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
63	0.22	68,000	4.6	9.6	7.4	5.0	F5DDC3220(1)T5(2)
63	0.22	68,000	5.2	11.1	13.4	10.0	F5DDF3220(1)T2(2)
63	0.22	100,000	4.6	9.6	7.4	5.0	F5DDC3220(1)S5(2)
63	0.22	100,000	5.2	11.1	13.4	10.0	F5DDF3220(1)S2(2)
63	0.33	10	4.6	9.6	7.4	5.0	F5DDC3330(1)U5(2)
63	0.33	10	5.2	11.1	13.4	10.0	F5DDF3330(1)U2(2)
63	0.33	22	4.6	9.6	7.4	5.0	F5DDC3330(1)V5(2)
63	0.33	22	5.2	11.1	13.4	10.0	F5DDF3330(1)V2(2)
63	0.33	47	4.6	9.6	7.4	5.0	F5DDC3330(1)W5(2)
63	0.33	47	5.2	11.1	13.4	10.0	F5DDF3330(1)W2(2)
63	0.33	68	4.6	9.6	7.4	5.0	F5DDC3330(1)X5(2)
63	0.33	68	5.2	11.1	13.4	10.0	F5DDF3330(1)X2(2)
63	0.33	100	4.6	9.6	7.4	5.0	F5DDC3330(1)E5(2)
63	0.33	100	5.2	11.1	13.4	10.0	F5DDF3330(1)E2(2)
63	0.33	220	4.6	9.6	7.4	5.0	F5DDC3330(1)G5(2)
63	0.33	220	5.2	11.1	13.4	10.0	F5DDF3330(1)G2(2)
63	0.33	470	4.6	9.6	7.4	5.0	F5DDC3330(1)A5(2)
63	0.33	470	5.2	11.1	13.4	10.0	F5DDF3330(1)A2(2)
63	0.33	680	4.6	9.6	7.4	5.0	F5DDC3330(1)H5(2)
63	0.33	680	5.2	11.1	13.4	10.0	F5DDF3330(1)H2(2)
63	0.33	1,000	4.6	9.6	7.4	5.0	F5DDC3330(1)C5(2)
63	0.33	1,000	5.2	11.1	13.4	10.0	F5DDF3330(1)C2(2)
63	0.33	2,200	4.6	9.6	7.4	5.0	F5DDC3330(1)F5(2)
63	0.33	2,200	5.2	11.1	13.4	10.0	F5DDF3330(1)F2(2)
63	0.33	4,700	4.6	9.6	7.4	5.0	F5DDC3330(1)B5(2)
63	0.33	4,700	5.2	11.1	13.4	10.0	F5DDF3330(1)B2(2)
63	0.33	6,800	4.6	9.6	7.4	5.0	F5DDC3330(1)N5(2)
63	0.33	6,800	5.2	11.1	13.4	10.0	F5DDF3330(1)N2(2)
63	0.33	10,000	4.6	9.6	7.4	5.0	F5DDC3330(1)D5(2)
63	0.33	10,000	5.2	11.1	13.4	10.0	F5DDF3330(1)D2(2)
63	0.33	47,000	4.6	9.6	7.4	5.0	F5DDC3330(1)R5(2)
63	0.33	47,000	5.2	11.1	13.4	10.0	F5DDF3330(1)R2(2)
63	0.33	68,000	4.6	9.6	7.4	5.0	F5DDC3330(1)T5(2)
63	0.33	68,000	5.2	11.1	13.4	10.0	F5DDF3330(1)T2(2)
63	0.33	100,000	4.6	9.6	7.4	5.0	F5DDC3330(1)S5(2)
63	0.33	100,000	5.2	11.1	13.4	10.0	F5DDF3330(1)S2(2)
63	0.47	10	4.6	9.6	7.4	5.0	F5DDC3470(1)U5(2)
63	0.47	10	5.2	11.1	13.4	10.0	F5DDF3470(1)U2(2)
63	0.47	22	4.6	9.6	7.4	5.0	F5DDC3470(1)V5(2)
63	0.47	22	5.2	11.1	13.4	10.0	F5DDF3470(1)V2(2)
63	0.47	47	4.6	9.6	7.4	5.0	F5DDC3470(1)W5(2)
63	0.47	47	5.2	11.1	13.4	10.0	F5DDF3470(1)W2(2)
63	0.47	68	4.6	9.6	7.4	5.0	F5DDC3470(1)X5(2)
63	0.47	68	5.2	11.1	13.4	10.0	F5DDF3470(1)X2(2)
63	0.47	100	4.6	9.6	7.4	5.0	F5DDC3470(1)E5(2)
63	0.47	100	5.2	11.1	13.4	10.0	F5DDF3470(1)E2(2)
63	0.47	220	4.6	9.6	7.4	5.0	F5DDC3470(1)G5(2)
63	0.47	220	5.2	11.1	13.4	10.0	F5DDF3470(1)G2(2)
63	0.47	470	4.6	9.6	7.4	5.0	F5DDC3470(1)A5(2)
63	0.47	470	5.2	11.1	13.4	10.0	F5DDF3470(1)A2(2)
63	0.47	680	4.6	9.6	7.4	5.0	F5DDC3470(1)H5(2)
63	0.47	680	5.2	11.1	13.4	10.0	F5DDF3470(1)H2(2)
63	0.47	1,000	4.6	9.6	7.4	5.0	F5DDC3470(1)C5(2)
63	0.47	1,000	5.2	11.1	13.4	10.0	F5DDF3470(1)C2(2)
63	0.47	2,200	4.6	9.6	7.4	5.0	F5DDC3470(1)F5(2)
63	0.47	2,200	5.2	11.1	13.4	10.0	F5DDF3470(1)F2(2)
63	0.47	4,700	4.6	9.6	7.4	5.0	F5DDC3470(1)B5(2)
63	0.47	4,700	5.2	11.1	13.4	10.0	F5DDF3470(1)B2(2)
63	0.47	6,800	4.6	9.6	7.4	5.0	F5DDC3470(1)N5(2)
63	0.47	6,800	5.2	11.1	13.4	10.0	F5DDF3470(1)N2(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
63	0.47	10,000	4.6	9.6	7.4	5.0	F5DDC3470(1)D5(2)
63	0.47	10,000	5.2	11.1	13.4	10.0	F5DDF3470(1)D2(2)
63	0.47	47,000	4.6	9.6	7.4	5.0	F5DDC3470(1)R5(2)
63	0.47	47,000	5.2	11.1	13.4	10.0	F5DDF3470(1)R2(2)
63	0.47	68,000	4.6	9.6	7.4	5.0	F5DDC3470(1)T5(2)
63	0.47	68,000	5.2	11.1	13.4	10.0	F5DDF3470(1)T2(2)
63	0.47	100,000	4.6	9.6	7.4	5.0	F5DDC3470(1)S5(2)
63	0.47	100,000	5.2	11.1	13.4	10.0	F5DDF3470(1)S2(2)
63	0.56	10	5.1	10.1	7.5	5.0	F5DDC3560(1)U6(2)
63	0.56	10	5.2	11.1	13.4	10.0	F5DDF3560(1)U2(2)
63	0.56	22	5.1	10.1	7.5	5.0	F5DDC3560(1)V6(2)
63	0.56	22	5.2	11.1	13.4	10.0	F5DDF3560(1)V2(2)
63	0.56	47	5.1	10.1	7.5	5.0	F5DDC3560(1)W6(2)
63	0.56	47	5.2	11.1	13.4	10.0	F5DDF3560(1)W2(2)
63	0.56	68	5.1	10.1	7.5	5.0	F5DDC3560(1)X6(2)
63	0.56	68	5.2	11.1	13.4	10.0	F5DDF3560(1)X2(2)
63	0.56	100	5.1	10.1	7.5	5.0	F5DDC3560(1)E6(2)
63	0.56	100	5.2	11.1	13.4	10.0	F5DDF3560(1)E2(2)
63	0.56	220	5.1	10.1	7.5	5.0	F5DDC3560(1)G6(2)
63	0.56	220	5.2	11.1	13.4	10.0	F5DDF3560(1)G2(2)
63	0.56	470	5.1	10.1	7.5	5.0	F5DDC3560(1)A6(2)
63	0.56	470	5.2	11.1	13.4	10.0	F5DDF3560(1)A2(2)
63	0.56	680	5.1	10.1	7.5	5.0	F5DDC3560(1)H6(2)
63	0.56	680	5.2	11.1	13.4	10.0	F5DDF3560(1)H2(2)
63	0.56	1,000	5.1	10.1	7.5	5.0	F5DDC3560(1)C6(2)
63	0.56	1,000	5.2	11.1	13.4	10.0	F5DDF3560(1)C2(2)
63	0.56	2,200	5.1	10.1	7.5	5.0	F5DDC3560(1)F6(2)
63	0.56	2,200	5.2	11.1	13.4	10.0	F5DDF3560(1)F2(2)
63	0.56	4,700	5.1	10.1	7.5	5.0	F5DDC3560(1)B6(2)
63	0.56	4,700	5.2	11.1	13.4	10.0	F5DDF3560(1)B2(2)
63	0.56	6,800	5.1	10.1	7.5	5.0	F5DDC3560(1)N6(2)
63	0.56	6,800	5.2	11.1	13.4	10.0	F5DDF3560(1)N2(2)
63	0.56	10,000	5.1	10.1	7.5	5.0	F5DDC3560(1)D6(2)
63	0.56	10,000	5.2	11.1	13.4	10.0	F5DDF3560(1)D2(2)
63	0.56	47,000	5.1	10.1	7.5	5.0	F5DDC3560(1)R6(2)
63	0.56	47,000	5.2	11.1	13.4	10.0	F5DDF3560(1)R2(2)
63	0.56	68,000	5.1	10.1	7.5	5.0	F5DDC3560(1)T6(2)
63	0.56	68,000	5.2	11.1	13.4	10.0	F5DDF3560(1)T2(2)
63	0.56	100,000	5.1	10.1	7.5	5.0	F5DDC3560(1)S6(2)
63	0.56	100,000	5.2	11.1	13.4	10.0	F5DDF3560(1)S2(2)
63	0.68	10	5.1	10.1	7.5	5.0	F5DDC3680(1)U6(2)
63	0.68	22	5.1	10.1	7.5	5.0	F5DDC3680(1)V6(2)
63	0.68	47	5.1	10.1	7.5	5.0	F5DDC3680(1)W6(2)
63	0.68	68	5.1	10.1	7.5	5.0	F5DDC3680(1)X6(2)
63	0.68	100	5.1	10.1	7.5	5.0	F5DDC3680(1)E6(2)
63	0.68	220	5.1	10.1	7.5	5.0	F5DDC3680(1)G6(2)
63	0.68	470	5.1	10.1	7.5	5.0	F5DDC3680(1)A6(2)
63	0.68	680	5.1	10.1	7.5	5.0	F5DDC3680(1)H6(2)
63	0.68	1,000	5.1	10.1	7.5	5.0	F5DDC3680(1)C6(2)
63	0.68	2,200	5.1	10.1	7.5	5.0	F5DDC3680(1)F6(2)
63	0.68	4,700	5.1	10.1	7.5	5.0	F5DDC3680(1)B6(2)
63	0.68	6,800	5.1	10.1	7.5	5.0	F5DDC3680(1)N6(2)
63	0.68	10,000	5.1	10.1	7.5	5.0	F5DDC3680(1)D6(2)
63	0.68	47,000	5.1	10.1	7.5	5.0	F5DDC3680(1)R6(2)
63	0.68	68,000	5.1	10.1	7.5	5.0	F5DDC3680(1)T6(2)
63	0.68	100,000	5.1	10.1	7.5	5.0	F5DDC3680(1)S6(2)
63	1.00	10	5.1	10.1	7.5	5.0	F5DDC4100(1)U6(2)
63	1.00	10	5.2	11.1	13.4	10.0	F5DDF4100(1)U2(2)
63	1.00	22	5.1	10.1	7.5	5.0	F5DDC4100(1)V6(2)
63	1.00	22	5.2	11.1	13.4	10.0	F5DDF4100(1)V2(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
63	1.00	47	5.1	10.1	7.5	5.0	F5DDC4100(1)W6(2)
63	1.00	47	5.2	11.1	13.4	10.0	F5DDF4100(1)W2(2)
63	1.00	68	5.1	10.1	7.5	5.0	F5DDC4100(1)X6(2)
63	1.00	68	5.2	11.1	13.4	10.0	F5DDF4100(1)X2(2)
63	1.00	100	5.1	10.1	7.5	5.0	F5DDC4100(1)E6(2)
63	1.00	100	5.2	11.1	13.4	10.0	F5DDF4100(1)E2(2)
63	1.00	220	5.1	10.1	7.5	5.0	F5DDC4100(1)G6(2)
63	1.00	220	5.2	11.1	13.4	10.0	F5DDF4100(1)G2(2)
63	1.00	470	5.1	10.1	7.5	5.0	F5DDC4100(1)A6(2)
63	1.00	470	5.2	11.1	13.4	10.0	F5DDF4100(1)A2(2)
63	1.00	680	5.1	10.1	7.5	5.0	F5DDC4100(1)H6(2)
63	1.00	680	5.2	11.1	13.4	10.0	F5DDF4100(1)H2(2)
63	1.00	1,000	5.1	10.1	7.5	5.0	F5DDC4100(1)C6(2)
63	1.00	1,000	5.2	11.1	13.4	10.0	F5DDF4100(1)C2(2)
63	1.00	2,200	5.1	10.1	7.5	5.0	F5DDC4100(1)F6(2)
63	1.00	2,200	5.2	11.1	13.4	10.0	F5DDF4100(1)F2(2)
63	1.00	4,700	5.1	10.1	7.5	5.0	F5DDC4100(1)B6(2)
63	1.00	4,700	5.2	11.1	13.4	10.0	F5DDF4100(1)B2(2)
63	1.00	6,800	5.1	10.1	7.5	5.0	F5DDC4100(1)N6(2)
63	1.00	6,800	5.2	11.1	13.4	10.0	F5DDF4100(1)N2(2)
63	1.00	10,000	5.1	10.1	7.5	5.0	F5DDC4100(1)D6(2)
63	1.00	10,000	5.2	11.1	13.4	10.0	F5DDF4100(1)D2(2)
63	1.00	47,000	5.1	10.1	7.5	5.0	F5DDC4100(1)R6(2)
63	1.00	47,000	5.2	11.1	13.4	10.0	F5DDF4100(1)R2(2)
63	1.00	68,000	5.1	10.1	7.5	5.0	F5DDC4100(1)T6(2)
63	1.00	68,000	5.2	11.1	13.4	10.0	F5DDF4100(1)T2(2)
63	1.00	100,000	5.1	10.1	7.5	5.0	F5DDC4100(1)S6(2)
63	1.00	100,000	5.2	11.1	13.4	10.0	F5DDF4100(1)S2(2)
63	1.20	10	6.2	12.1	13.4	10.0	F5DDF4120(1)U3(2)
63	1.20	22	6.2	12.1	13.4	10.0	F5DDF4120(1)V3(2)
63	1.20	47	6.2	12.1	13.4	10.0	F5DDF4120(1)W3(2)
63	1.20	68	6.2	12.1	13.4	10.0	F5DDF4120(1)X3(2)
63	1.20	100	6.2	12.1	13.4	10.0	F5DDF4120(1)E3(2)
63	1.20	220	6.2	12.1	13.4	10.0	F5DDF4120(1)G3(2)
63	1.20	470	6.2	12.1	13.4	10.0	F5DDF4120(1)A3(2)
63	1.20	680	6.2	12.1	13.4	10.0	F5DDF4120(1)H3(2)
63	1.20	1,000	6.2	12.1	13.4	10.0	F5DDF4120(1)C3(2)
63	1.20	2,200	6.2	12.1	13.4	10.0	F5DDF4120(1)F3(2)
63	1.20	4,700	6.2	12.1	13.4	10.0	F5DDF4120(1)B3(2)
63	1.20	6,800	6.2	12.1	13.4	10.0	F5DDF4120(1)N3(2)
63	1.20	10,000	6.2	12.1	13.4	10.0	F5DDF4120(1)D3(2)
63	1.20	47,000	6.2	12.1	13.4	10.0	F5DDF4120(1)R3(2)
63	1.20	68,000	6.2	12.1	13.4	10.0	F5DDF4120(1)T3(2)
63	1.20	100,000	6.2	12.1	13.4	10.0	F5DDF4120(1)S3(2)
63	1.50	10	5.1	10.1	7.5	5.0	F5DDC4150(1)U6(2)
63	1.50	10	6.2	12.1	13.4	10.0	F5DDF4150(1)U3(2)
63	1.50	22	5.1	10.1	7.5	5.0	F5DDC4150(1)V6(2)
63	1.50	22	6.2	12.1	13.4	10.0	F5DDF4150(1)V3(2)
63	1.50	47	5.1	10.1	7.5	5.0	F5DDC4150(1)W6(2)
63	1.50	47	6.2	12.1	13.4	10.0	F5DDF4150(1)W3(2)
63	1.50	68	5.1	10.1	7.5	5.0	F5DDC4150(1)X6(2)
63	1.50	68	6.2	12.1	13.4	10.0	F5DDF4150(1)X3(2)
63	1.50	100	5.1	10.1	7.5	5.0	F5DDC4150(1)E6(2)
63	1.50	100	6.2	12.1	13.4	10.0	F5DDF4150(1)E3(2)
63	1.50	220	5.1	10.1	7.5	5.0	F5DDC4150(1)G6(2)
63	1.50	220	6.2	12.1	13.4	10.0	F5DDF4150(1)G3(2)
63	1.50	470	5.1	10.1	7.5	5.0	F5DDC4150(1)A6(2)
63	1.50	470	6.2	12.1	13.4	10.0	F5DDF4150(1)A3(2)
63	1.50	680	5.1	10.1	7.5	5.0	F5DDC4150(1)H6(2)
63	1.50	680	6.2	12.1	13.4	10.0	F5DDF4150(1)H3(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
63	1.50	1,000	5.1	10.1	7.5	5.0	F5DDC4150(1)C6(2)
63	1.50	1,000	6.2	12.1	13.4	10.0	F5DDF4150(1)C3(2)
63	1.50	2,200	5.1	10.1	7.5	5.0	F5DDC4150(1)F6(2)
63	1.50	2,200	6.2	12.1	13.4	10.0	F5DDF4150(1)F3(2)
63	1.50	4,700	5.1	10.1	7.5	5.0	F5DDC4150(1)B6(2)
63	1.50	4,700	6.2	12.1	13.4	10.0	F5DDF4150(1)B3(2)
63	1.50	6,800	5.1	10.1	7.5	5.0	F5DDC4150(1)N6(2)
63	1.50	6,800	6.2	12.1	13.4	10.0	F5DDF4150(1)N3(2)
63	1.50	10,000	5.1	10.1	7.5	5.0	F5DDC4150(1)D6(2)
63	1.50	10,000	6.2	12.1	13.4	10.0	F5DDF4150(1)D3(2)
63	1.50	47,000	5.1	10.1	7.5	5.0	F5DDC4150(1)R6(2)
63	1.50	47,000	6.2	12.1	13.4	10.0	F5DDF4150(1)R3(2)
63	1.50	68,000	5.1	10.1	7.5	5.0	F5DDC4150(1)T6(2)
63	1.50	68,000	6.2	12.1	13.4	10.0	F5DDF4150(1)T3(2)
63	1.50	100,000	5.1	10.1	7.5	5.0	F5DDC4150(1)S6(2)
63	1.50	100,000	6.2	12.1	13.4	10.0	F5DDF4150(1)S3(2)
63	1.80	22	6.1	11.1	7.5	5.0	F5DDC4180(1)V7(2)
63	1.80	47	6.1	11.1	7.5	5.0	F5DDC4180(1)W7(2)
63	1.80	68	6.1	11.1	7.5	5.0	F5DDC4180(1)X7(2)
63	1.80	100	6.1	11.1	7.5	5.0	F5DDC4180(1)E7(2)
63	1.80	220	6.1	11.1	7.5	5.0	F5DDC4180(1)G7(2)
63	1.80	470	6.1	11.1	7.5	5.0	F5DDC4180(1)A7(2)
63	1.80	680	6.1	11.1	7.5	5.0	F5DDC4180(1)H7(2)
63	1.80	1,000	6.1	11.1	7.5	5.0	F5DDC4180(1)C7(2)
63	1.80	2,200	6.1	11.1	7.5	5.0	F5DDC4180(1)F7(2)
63	1.80	4,700	6.1	11.1	7.5	5.0	F5DDC4180(1)B7(2)
63	1.80	6,800	6.1	11.1	7.5	5.0	F5DDC4180(1)N7(2)
63	1.80	10,000	6.1	11.1	7.5	5.0	F5DDC4180(1)D7(2)
63	1.80	47,000	6.1	11.1	7.5	5.0	F5DDC4180(1)R7(2)
63	1.80	68,000	6.1	11.1	7.5	5.0	F5DDC4180(1)T7(2)
63	1.80	100,000	6.1	11.1	7.5	5.0	F5DDC4180(1)S7(2)
63	1.80	100,000	6.1	11.1	7.5	5.0	F5DDC4180(1)S7(2)
63	2.20	22	6.1	11.1	7.5	5.0	F5DDC4220(1)V7(2)
63	2.20	47	6.1	11.1	7.5	5.0	F5DDC4220(1)W7(2)
63	2.20	68	6.1	11.1	7.5	5.0	F5DDC4220(1)X7(2)
63	2.20	100	6.1	11.1	7.5	5.0	F5DDC4220(1)E7(2)
63	2.20	220	6.1	11.1	7.5	5.0	F5DDC4220(1)G7(2)
63	2.20	470	6.1	11.1	7.5	5.0	F5DDC4220(1)A7(2)
63	2.20	680	6.1	11.1	7.5	5.0	F5DDC4220(1)H7(2)
63	2.20	1,000	6.1	11.1	7.5	5.0	F5DDC4220(1)C7(2)
63	2.20	2,200	6.1	11.1	7.5	5.0	F5DDC4220(1)F7(2)
63	2.20	4,700	6.1	11.1	7.5	5.0	F5DDC4220(1)B7(2)
63	2.20	6,800	6.1	11.1	7.5	5.0	F5DDC4220(1)N7(2)
63	2.20	10,000	6.1	11.1	7.5	5.0	F5DDC4220(1)D7(2)
63	2.20	47,000	6.1	11.1	7.5	5.0	F5DDC4220(1)R7(2)
63	2.20	68,000	6.1	11.1	7.5	5.0	F5DDC4220(1)T7(2)
63	2.20	100,000	6.1	11.1	7.5	5.0	F5DDC4220(1)S7(2)
63	2.20	100,000	6.1	11.1	7.5	5.0	F5DDC4220(1)S7(2)
100	0.10	10	4.6	9.6	7.4	5.0	F5DEC3100(1)U5(2)
100	0.10	10	5.2	11.1	13.4	10.0	F5DEF3100(1)U2(2)
100	0.10	22	4.6	9.6	7.4	5.0	F5DEC3100(1)V5(2)
100	0.10	22	5.2	11.1	13.4	10.0	F5DEF3100(1)V2(2)
100	0.10	47	4.6	9.6	7.4	5.0	F5DEC3100(1)W5(2)
100	0.10	47	5.2	11.1	13.4	10.0	F5DEF3100(1)W2(2)
100	0.10	68	4.6	9.6	7.4	5.0	F5DEC3100(1)X5(2)
100	0.10	68	5.2	11.1	13.4	10.0	F5DEF3100(1)X2(2)
100	0.10	100	4.6	9.6	7.4	5.0	F5DEC3100(1)E5(2)
100	0.10	100	5.2	11.1	13.4	10.0	F5DEF3100(1)E2(2)
100	0.10	220	4.6	9.6	7.4	5.0	F5DEC3100(1)G5(2)
100	0.10	220	5.2	11.1	13.4	10.0	F5DEF3100(1)G2(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
100	0.10	470	4.6	9.6	7.4	5.0	F5DEC3100(1)A5(2)
100	0.10	470	5.2	11.1	13.4	10.0	F5DEF3100(1)A2(2)
100	0.10	680	4.6	9.6	7.4	5.0	F5DEC3100(1)H5(2)
100	0.10	680	5.2	11.1	13.4	10.0	F5DEF3100(1)H2(2)
100	0.10	1,000	4.6	9.6	7.4	5.0	F5DEC3100(1)C5(2)
100	0.10	1,000	5.2	11.1	13.4	10.0	F5DEF3100(1)C2(2)
100	0.10	2,200	4.6	9.6	7.4	5.0	F5DEC3100(1)F5(2)
100	0.10	2,200	5.2	11.1	13.4	10.0	F5DEF3100(1)F2(2)
100	0.10	4,700	4.6	9.6	7.4	5.0	F5DEC3100(1)B5(2)
100	0.10	4,700	5.2	11.1	13.4	10.0	F5DEF3100(1)B2(2)
100	0.10	6,800	4.6	9.6	7.4	5.0	F5DEC3100(1)N5(2)
100	0.10	6,800	5.2	11.1	13.4	10.0	F5DEF3100(1)N2(2)
100	0.10	10,000	4.6	9.6	7.4	5.0	F5DEC3100(1)D5(2)
100	0.10	10,000	5.2	11.1	13.4	10.0	F5DEF3100(1)D2(2)
100	0.10	47,000	4.6	9.6	7.4	5.0	F5DEC3100(1)R5(2)
100	0.10	47,000	5.2	11.1	13.4	10.0	F5DEF3100(1)R2(2)
100	0.10	68,000	4.6	9.6	7.4	5.0	F5DEC3100(1)T5(2)
100	0.10	68,000	5.2	11.1	13.4	10.0	F5DEF3100(1)T2(2)
100	0.10	100,000	4.6	9.6	7.4	5.0	F5DEC3100(1)S5(2)
100	0.10	100,000	5.2	11.1	13.4	10.0	F5DEF3100(1)S2(2)
100	0.22	10	4.6	9.6	7.4	5.0	F5DEC3220(1)U5(2)
100	0.22	10	5.2	11.1	13.4	10.0	F5DEF3220(1)U2(2)
100	0.22	22	4.6	9.6	7.4	5.0	F5DEC3220(1)V5(2)
100	0.22	22	5.2	11.1	13.4	10.0	F5DEF3220(1)V2(2)
100	0.22	47	4.6	9.6	7.4	5.0	F5DEC3220(1)W5(2)
100	0.22	47	5.2	11.1	13.4	10.0	F5DEF3220(1)W2(2)
100	0.22	68	4.6	9.6	7.4	5.0	F5DEC3220(1)X5(2)
100	0.22	68	5.2	11.1	13.4	10.0	F5DEF3220(1)X2(2)
100	0.22	100	4.6	9.6	7.4	5.0	F5DEC3220(1)E5(2)
100	0.22	100	5.2	11.1	13.4	10.0	F5DEF3220(1)E2(2)
100	0.22	220	4.6	9.6	7.4	5.0	F5DEC3220(1)G5(2)
100	0.22	220	5.2	11.1	13.4	10.0	F5DEF3220(1)G2(2)
100	0.22	470	4.6	9.6	7.4	5.0	F5DEC3220(1)A5(2)
100	0.22	470	5.2	11.1	13.4	10.0	F5DEF3220(1)A2(2)
100	0.22	680	4.6	9.6	7.4	5.0	F5DEC3220(1)H5(2)
100	0.22	680	5.2	11.1	13.4	10.0	F5DEF3220(1)H2(2)
100	0.22	1,000	4.6	9.6	7.4	5.0	F5DEC3220(1)C5(2)
100	0.22	1,000	5.2	11.1	13.4	10.0	F5DEF3220(1)C2(2)
100	0.22	2,200	4.6	9.6	7.4	5.0	F5DEC3220(1)F5(2)
100	0.22	2,200	5.2	11.1	13.4	10.0	F5DEF3220(1)F2(2)
100	0.22	4,700	4.6	9.6	7.4	5.0	F5DEC3220(1)B5(2)
100	0.22	4,700	5.2	11.1	13.4	10.0	F5DEF3220(1)B2(2)
100	0.22	6,800	4.6	9.6	7.4	5.0	F5DEC3220(1)N5(2)
100	0.22	6,800	5.2	11.1	13.4	10.0	F5DEF3220(1)N2(2)
100	0.22	10,000	4.6	9.6	7.4	5.0	F5DEC3220(1)D5(2)
100	0.22	10,000	5.2	11.1	13.4	10.0	F5DEF3220(1)D2(2)
100	0.22	47,000	4.6	9.6	7.4	5.0	F5DEC3220(1)R5(2)
100	0.22	47,000	5.2	11.1	13.4	10.0	F5DEF3220(1)R2(2)
100	0.22	68,000	4.6	9.6	7.4	5.0	F5DEC3220(1)T5(2)
100	0.22	68,000	5.2	11.1	13.4	10.0	F5DEF3220(1)T2(2)
100	0.22	100,000	4.6	9.6	7.4	5.0	F5DEC3220(1)S5(2)
100	0.22	100,000	5.2	11.1	13.4	10.0	F5DEF3220(1)S2(2)
100	0.33	10	4.6	9.6	7.4	5.0	F5DEC3330(1)U5(2)
100	0.33	10	5.2	11.1	13.4	10.0	F5DEF3330(1)U2(2)
100	0.33	22	4.6	9.6	7.4	5.0	F5DEC3330(1)V5(2)
100	0.33	22	5.2	11.1	13.4	10.0	F5DEF3330(1)V2(2)
100	0.33	47	4.6	9.6	7.4	5.0	F5DEC3330(1)W5(2)
100	0.33	47	5.2	11.1	13.4	10.0	F5DEF3330(1)W2(2)
100	0.33	68	4.6	9.6	7.4	5.0	F5DEC3330(1)X5(2)
100	0.33	68	5.2	11.1	13.4	10.0	F5DEF3330(1)X2(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
100	0.33	100	4.6	9.6	7.4	5.0	F5DEC3330(1)E5(2)
100	0.33	100	5.2	11.1	13.4	10.0	F5DEF3330(1)E2(2)
100	0.33	220	4.6	9.6	7.4	5.0	F5DEC3330(1)G5(2)
100	0.33	220	5.2	11.1	13.4	10.0	F5DEF3330(1)G2(2)
100	0.33	470	4.6	9.6	7.4	5.0	F5DEC3330(1)A5(2)
100	0.33	470	5.2	11.1	13.4	10.0	F5DEF3330(1)A2(2)
100	0.33	680	4.6	9.6	7.4	5.0	F5DEC3330(1)H5(2)
100	0.33	680	5.2	11.1	13.4	10.0	F5DEF3330(1)H2(2)
100	0.33	1,000	4.6	9.6	7.4	5.0	F5DEC3330(1)C5(2)
100	0.33	1,000	5.2	11.1	13.4	10.0	F5DEF3330(1)C2(2)
100	0.33	2,200	4.6	9.6	7.4	5.0	F5DEC3330(1)F5(2)
100	0.33	2,200	5.2	11.1	13.4	10.0	F5DEF3330(1)F2(2)
100	0.33	4,700	4.6	9.6	7.4	5.0	F5DEC3330(1)B5(2)
100	0.33	4,700	5.2	11.1	13.4	10.0	F5DEF3330(1)B2(2)
100	0.33	6,800	4.6	9.6	7.4	5.0	F5DEC3330(1)N5(2)
100	0.33	6,800	5.2	11.1	13.4	10.0	F5DEF3330(1)N2(2)
100	0.33	10,000	4.6	9.6	7.4	5.0	F5DEC3330(1)D5(2)
100	0.33	10,000	5.2	11.1	13.4	10.0	F5DEF3330(1)D2(2)
100	0.33	47,000	4.6	9.6	7.4	5.0	F5DEC3330(1)R5(2)
100	0.33	47,000	5.2	11.1	13.4	10.0	F5DEF3330(1)R2(2)
100	0.33	68,000	4.6	9.6	7.4	5.0	F5DEC3330(1)T5(2)
100	0.33	68,000	5.2	11.1	13.4	10.0	F5DEF3330(1)T2(2)
100	0.33	100,000	4.6	9.6	7.4	5.0	F5DEC3330(1)S5(2)
100	0.33	100,000	5.2	11.1	13.4	10.0	F5DEF3330(1)S2(2)
100	0.47	10	4.6	9.6	7.4	5.0	F5DEC3470(1)U5(2)
100	0.47	10	5.2	11.1	13.4	10.0	F5DEF3470(1)U2(2)
100	0.47	22	4.6	9.6	7.4	5.0	F5DEC3470(1)V5(2)
100	0.47	22	5.2	11.1	13.4	10.0	F5DEF3470(1)V2(2)
100	0.47	47	4.6	9.6	7.4	5.0	F5DEC3470(1)W5(2)
100	0.47	47	5.2	11.1	13.4	10.0	F5DEF3470(1)W2(2)
100	0.47	68	4.6	9.6	7.4	5.0	F5DEC3470(1)X5(2)
100	0.47	68	5.2	11.1	13.4	10.0	F5DEF3470(1)X2(2)
100	0.47	100	4.6	9.6	7.4	5.0	F5DEC3470(1)E5(2)
100	0.47	100	5.2	11.1	13.4	10.0	F5DEF3470(1)E2(2)
100	0.47	220	4.6	9.6	7.4	5.0	F5DEC3470(1)G5(2)
100	0.47	220	5.2	11.1	13.4	10.0	F5DEF3470(1)G2(2)
100	0.47	470	4.6	9.6	7.4	5.0	F5DEC3470(1)A5(2)
100	0.47	470	5.2	11.1	13.4	10.0	F5DEF3470(1)A2(2)
100	0.47	680	4.6	9.6	7.4	5.0	F5DEC3470(1)H5(2)
100	0.47	680	5.2	11.1	13.4	10.0	F5DEF3470(1)H2(2)
100	0.47	1,000	4.6	9.6	7.4	5.0	F5DEC3470(1)C5(2)
100	0.47	1,000	5.2	11.1	13.4	10.0	F5DEF3470(1)C2(2)
100	0.47	2,200	4.6	9.6	7.4	5.0	F5DEC3470(1)F5(2)
100	0.47	2,200	5.2	11.1	13.4	10.0	F5DEF3470(1)F2(2)
100	0.47	4,700	4.6	9.6	7.4	5.0	F5DEC3470(1)B5(2)
100	0.47	4,700	5.2	11.1	13.4	10.0	F5DEF3470(1)B2(2)
100	0.47	6,800	4.6	9.6	7.4	5.0	F5DEC3470(1)N5(2)
100	0.47	6,800	5.2	11.1	13.4	10.0	F5DEF3470(1)N2(2)
100	0.47	10,000	4.6	9.6	7.4	5.0	F5DEC3470(1)D5(2)
100	0.47	10,000	5.2	11.1	13.4	10.0	F5DEF3470(1)D2(2)
100	0.47	47,000	4.6	9.6	7.4	5.0	F5DEC3470(1)R5(2)
100	0.47	47,000	5.2	11.1	13.4	10.0	F5DEF3470(1)R2(2)
100	0.47	68,000	4.6	9.6	7.4	5.0	F5DEC3470(1)T5(2)
100	0.47	68,000	5.2	11.1	13.4	10.0	F5DEF3470(1)T2(2)
100	0.47	100,000	4.6	9.6	7.4	5.0	F5DEC3470(1)S5(2)
100	0.47	100,000	5.2	11.1	13.4	10.0	F5DEF3470(1)S2(2)
100	0.56	10	5.1	10.1	7.5	5.0	F5DEC3560(1)U6(2)
100	0.56	10	5.2	11.1	13.4	10.0	F5DEF3560(1)U2(2)
100	0.56	22	5.1	10.1	7.5	5.0	F5DEC3560(1)V6(2)
100	0.56	22	5.2	11.1	13.4	10.0	F5DEF3560(1)V2(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
100	0.56	47	5.1	10.1	7.5	5.0	F5DEC3560(1)W6(2)
100	0.56	47	5.2	11.1	13.4	10.0	F5DEF3560(1)W2(2)
100	0.56	68	5.1	10.1	7.5	5.0	F5DEC3560(1)X6(2)
100	0.56	68	5.2	11.1	13.4	10.0	F5DEF3560(1)X2(2)
100	0.56	100	5.1	10.1	7.5	5.0	F5DEC3560(1)E6(2)
100	0.56	100	5.2	11.1	13.4	10.0	F5DEF3560(1)E2(2)
100	0.56	220	5.1	10.1	7.5	5.0	F5DEC3560(1)G6(2)
100	0.56	220	5.2	11.1	13.4	10.0	F5DEF3560(1)G2(2)
100	0.56	470	5.1	10.1	7.5	5.0	F5DEC3560(1)A6(2)
100	0.56	470	5.2	11.1	13.4	10.0	F5DEF3560(1)A2(2)
100	0.56	680	5.1	10.1	7.5	5.0	F5DEC3560(1)H6(2)
100	0.56	680	5.2	11.1	13.4	10.0	F5DEF3560(1)H2(2)
100	0.56	1,000	5.1	10.1	7.5	5.0	F5DEC3560(1)C6(2)
100	0.56	1,000	5.2	11.1	13.4	10.0	F5DEF3560(1)C2(2)
100	0.56	2,200	5.1	10.1	7.5	5.0	F5DEC3560(1)F6(2)
100	0.56	2,200	5.2	11.1	13.4	10.0	F5DEF3560(1)F2(2)
100	0.56	4,700	5.1	10.1	7.5	5.0	F5DEC3560(1)B6(2)
100	0.56	4,700	5.2	11.1	13.4	10.0	F5DEF3560(1)B2(2)
100	0.56	6,800	5.1	10.1	7.5	5.0	F5DEC3560(1)N6(2)
100	0.56	6,800	5.2	11.1	13.4	10.0	F5DEF3560(1)N2(2)
100	0.56	10,000	5.1	10.1	7.5	5.0	F5DEC3560(1)D6(2)
100	0.56	10,000	5.2	11.1	13.4	10.0	F5DEF3560(1)D2(2)
100	0.56	47,000	5.1	10.1	7.5	5.0	F5DEC3560(1)R6(2)
100	0.56	47,000	5.2	11.1	13.4	10.0	F5DEF3560(1)R2(2)
100	0.56	68,000	5.1	10.1	7.5	5.0	F5DEC3560(1)T6(2)
100	0.56	68,000	5.2	11.1	13.4	10.0	F5DEF3560(1)T2(2)
100	0.56	100,000	5.1	10.1	7.5	5.0	F5DEC3560(1)S6(2)
100	0.56	100,000	5.2	11.1	13.4	10.0	F5DEF3560(1)S2(2)
100	0.68	10	5.1	10.1	7.5	5.0	F5DEC3680(1)U6(2)
100	0.68	22	5.1	10.1	7.5	5.0	F5DEC3680(1)V6(2)
100	0.68	47	5.1	10.1	7.5	5.0	F5DEC3680(1)W6(2)
100	0.68	68	5.1	10.1	7.5	5.0	F5DEC3680(1)X6(2)
100	0.68	100	5.1	10.1	7.5	5.0	F5DEC3680(1)E6(2)
100	0.68	220	5.1	10.1	7.5	5.0	F5DEC3680(1)G6(2)
100	0.68	470	5.1	10.1	7.5	5.0	F5DEC3680(1)A6(2)
100	0.68	680	5.1	10.1	7.5	5.0	F5DEC3680(1)H6(2)
100	0.68	1,000	5.1	10.1	7.5	5.0	F5DEC3680(1)C6(2)
100	0.68	2,200	5.1	10.1	7.5	5.0	F5DEC3680(1)F6(2)
100	0.68	4,700	5.1	10.1	7.5	5.0	F5DEC3680(1)B6(2)
100	0.68	6,800	5.1	10.1	7.5	5.0	F5DEC3680(1)N6(2)
100	0.68	10,000	5.1	10.1	7.5	5.0	F5DEC3680(1)D6(2)
100	0.68	47,000	5.1	10.1	7.5	5.0	F5DEC3680(1)R6(2)
100	0.68	68,000	5.1	10.1	7.5	5.0	F5DEC3680(1)T6(2)
100	0.68	100,000	5.1	10.1	7.5	5.0	F5DEC3680(1)S6(2)
100	1.00	10	5.1	10.1	7.5	5.0	F5DEC4100(1)U6(2)
100	1.00	10	5.2	11.1	13.4	10.0	F5DEF4100(1)U2(2)
100	1.00	22	5.1	10.1	7.5	5.0	F5DEC4100(1)V6(2)
100	1.00	22	5.2	11.1	13.4	10.0	F5DEF4100(1)V2(2)
100	1.00	47	5.1	10.1	7.5	5.0	F5DEC4100(1)W6(2)
100	1.00	47	5.2	11.1	13.4	10.0	F5DEF4100(1)W2(2)
100	1.00	68	5.1	10.1	7.5	5.0	F5DEC4100(1)X6(2)
100	1.00	68	5.2	11.1	13.4	10.0	F5DEF4100(1)X2(2)
100	1.00	100	5.1	10.1	7.5	5.0	F5DEC4100(1)E6(2)
100	1.00	100	5.2	11.1	13.4	10.0	F5DEF4100(1)E2(2)
100	1.00	220	5.1	10.1	7.5	5.0	F5DEC4100(1)G6(2)
100	1.00	220	5.2	11.1	13.4	10.0	F5DEF4100(1)G2(2)
100	1.00	470	5.1	10.1	7.5	5.0	F5DEC4100(1)A6(2)
100	1.00	470	5.2	11.1	13.4	10.0	F5DEF4100(1)A2(2)
100	1.00	680	5.1	10.1	7.5	5.0	F5DEC4100(1)H6(2)
100	1.00	680	5.2	11.1	13.4	10.0	F5DEF4100(1)H2(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
100	1.00	1,000	5.1	10.1	7.5	5.0	F5DEC4100(1)C6(2)
100	1.00	1,000	5.2	11.1	13.4	10.0	F5DEF4100(1)C2(2)
100	1.00	2,200	5.1	10.1	7.5	5.0	F5DEC4100(1)F6(2)
100	1.00	2,200	5.2	11.1	13.4	10.0	F5DEF4100(1)F2(2)
100	1.00	4,700	5.1	10.1	7.5	5.0	F5DEC4100(1)B6(2)
100	1.00	4,700	5.2	11.1	13.4	10.0	F5DEF4100(1)B2(2)
100	1.00	6,800	5.1	10.1	7.5	5.0	F5DEC4100(1)N6(2)
100	1.00	6,800	5.2	11.1	13.4	10.0	F5DEF4100(1)N2(2)
100	1.00	10,000	5.1	10.1	7.5	5.0	F5DEC4100(1)D6(2)
100	1.00	10,000	5.2	11.1	13.4	10.0	F5DEF4100(1)D2(2)
100	1.00	47,000	5.1	10.1	7.5	5.0	F5DEC4100(1)R6(2)
100	1.00	47,000	5.2	11.1	13.4	10.0	F5DEF4100(1)R2(2)
100	1.00	68,000	5.1	10.1	7.5	5.0	F5DEC4100(1)T6(2)
100	1.00	68,000	5.2	11.1	13.4	10.0	F5DEF4100(1)T2(2)
100	1.00	100,000	5.1	10.1	7.5	5.0	F5DEC4100(1)S6(2)
100	1.00	100,000	5.2	11.1	13.4	10.0	F5DEF4100(1)S2(2)
100	1.20	10	6.2	12.1	13.4	10.0	F5DEF4120(1)U3(2)
100	1.20	22	6.2	12.1	13.4	10.0	F5DEF4120(1)V3(2)
100	1.20	47	6.2	12.1	13.4	10.0	F5DEF4120(1)W3(2)
100	1.20	68	6.2	12.1	13.4	10.0	F5DEF4120(1)X3(2)
100	1.20	100	6.2	12.1	13.4	10.0	F5DEF4120(1)E3(2)
100	1.20	220	6.2	12.1	13.4	10.0	F5DEF4120(1)G3(2)
100	1.20	470	6.2	12.1	13.4	10.0	F5DEF4120(1)A3(2)
100	1.20	680	6.2	12.1	13.4	10.0	F5DEF4120(1)H3(2)
100	1.20	1,000	6.2	12.1	13.4	10.0	F5DEF4120(1)C3(2)
100	1.20	2,200	6.2	12.1	13.4	10.0	F5DEF4120(1)F3(2)
100	1.20	4,700	6.2	12.1	13.4	10.0	F5DEF4120(1)B3(2)
100	1.20	6,800	6.2	12.1	13.4	10.0	F5DEF4120(1)N3(2)
100	1.20	10,000	6.2	12.1	13.4	10.0	F5DEF4120(1)D3(2)
100	1.20	47,000	6.2	12.1	13.4	10.0	F5DEF4120(1)R3(2)
100	1.20	68,000	6.2	12.1	13.4	10.0	F5DEF4120(1)T3(2)
100	1.20	100,000	6.2	12.1	13.4	10.0	F5DEF4120(1)S3(2)
100	1.50	10	5.1	10.1	7.5	5.0	F5DEC4150(1)U6(2)
100	1.50	10	6.2	12.1	13.4	10.0	F5DEF4150(1)U3(2)
100	1.50	22	5.1	10.1	7.5	5.0	F5DEC4150(1)V6(2)
100	1.50	22	6.2	12.1	13.4	10.0	F5DEF4150(1)V3(2)
100	1.50	47	5.1	10.1	7.5	5.0	F5DEC4150(1)W6(2)
100	1.50	47	6.2	12.1	13.4	10.0	F5DEF4150(1)W3(2)
100	1.50	68	5.1	10.1	7.5	5.0	F5DEC4150(1)X6(2)
100	1.50	68	6.2	12.1	13.4	10.0	F5DEF4150(1)X3(2)
100	1.50	100	5.1	10.1	7.5	5.0	F5DEC4150(1)E6(2)
100	1.50	100	6.2	12.1	13.4	10.0	F5DEF4150(1)E3(2)
100	1.50	220	5.1	10.1	7.5	5.0	F5DEC4150(1)G6(2)
100	1.50	220	6.2	12.1	13.4	10.0	F5DEF4150(1)G3(2)
100	1.50	470	5.1	10.1	7.5	5.0	F5DEC4150(1)A6(2)
100	1.50	470	6.2	12.1	13.4	10.0	F5DEF4150(1)A3(2)
100	1.50	680	5.1	10.1	7.5	5.0	F5DEC4150(1)H6(2)
100	1.50	680	6.2	12.1	13.4	10.0	F5DEF4150(1)H3(2)
100	1.50	1,000	5.1	10.1	7.5	5.0	F5DEC4150(1)C6(2)
100	1.50	1,000	6.2	12.1	13.4	10.0	F5DEF4150(1)C3(2)
100	1.50	2,200	5.1	10.1	7.5	5.0	F5DEC4150(1)F6(2)
100	1.50	2,200	6.2	12.1	13.4	10.0	F5DEF4150(1)F3(2)
100	1.50	4,700	5.1	10.1	7.5	5.0	F5DEC4150(1)B6(2)
100	1.50	4,700	6.2	12.1	13.4	10.0	F5DEF4150(1)B3(2)
100	1.50	6,800	5.1	10.1	7.5	5.0	F5DEC4150(1)N6(2)
100	1.50	6,800	6.2	12.1	13.4	10.0	F5DEF4150(1)N3(2)
100	1.50	10,000	5.1	10.1	7.5	5.0	F5DEC4150(1)D6(2)
100	1.50	10,000	6.2	12.1	13.4	10.0	F5DEF4150(1)D3(2)
100	1.50	47,000	5.1	10.1	7.5	5.0	F5DEC4150(1)R6(2)
100	1.50	47,000	6.2	12.1	13.4	10.0	F5DEF4150(1)R3(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

(1) Packaging and lead length: See Table 1 for options (two letter alpha code)

(2) Capacitance tolerance: K = +/-10%, M = +/-20%

Table 4 – Ratings & Part Number Reference con't

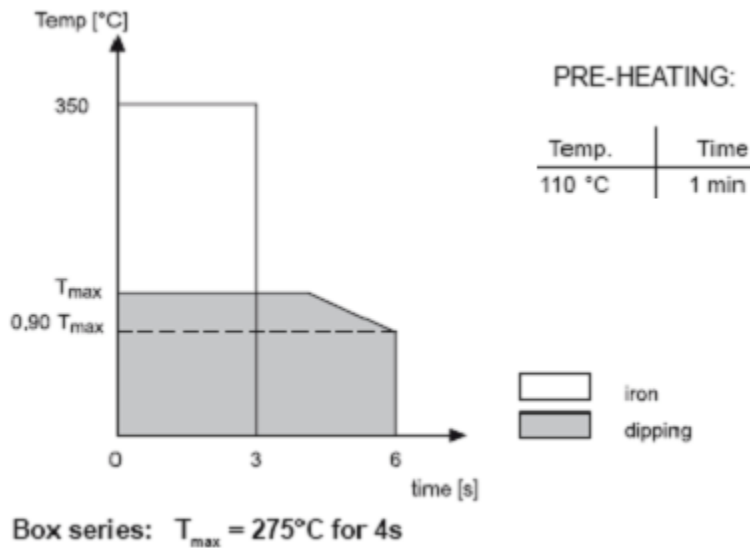
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number
100	1.50	68,000	5.1	10.1	7.5	5.0	F5DEC4150(1)T6(2)
100	1.50	68,000	6.2	12.1	13.4	10.0	F5DEF4150(1)T3(2)
100	1.50	100,000	5.1	10.1	7.5	5.0	F5DEC4150(1)S6(2)
100	1.50	100,000	6.2	12.1	13.4	10.0	F5DEF4150(1)S3(2)
100	1.80	22	6.1	11.1	7.5	5.0	F5DEC4180(1)V7(2)
100	1.80	47	6.1	11.1	7.5	5.0	F5DEC4180(1)W7(2)
100	1.80	68	6.1	11.1	7.5	5.0	F5DEC4180(1)X7(2)
100	1.80	100	6.1	11.1	7.5	5.0	F5DEC4180(1)E7(2)
100	1.80	220	6.1	11.1	7.5	5.0	F5DEC4180(1)G7(2)
100	1.80	470	6.1	11.1	7.5	5.0	F5DEC4180(1)A7(2)
100	1.80	680	6.1	11.1	7.5	5.0	F5DEC4180(1)H7(2)
100	1.80	1,000	6.1	11.1	7.5	5.0	F5DEC4180(1)C7(2)
100	1.80	2,200	6.1	11.1	7.5	5.0	F5DEC4180(1)F7(2)
100	1.80	4,700	6.1	11.1	7.5	5.0	F5DEC4180(1)B7(2)
100	1.80	6,800	6.1	11.1	7.5	5.0	F5DEC4180(1)N7(2)
100	1.80	10,000	6.1	11.1	7.5	5.0	F5DEC4180(1)D7(2)
100	1.80	47,000	6.1	11.1	7.5	5.0	F5DEC4180(1)R7(2)
100	1.80	68,000	6.1	11.1	7.5	5.0	F5DEC4180(1)T7(2)
100	1.80	100,000	6.1	11.1	7.5	5.0	F5DEC4180(1)S7(2)
100	1.80	100,000	6.1	11.1	7.5	5.0	F5DEC4180(1)S7(2)
100	2.20	22	6.1	11.1	7.5	5.0	F5DEC4220(1)V7(2)
100	2.20	47	6.1	11.1	7.5	5.0	F5DEC4220(1)W7(2)
100	2.20	68	6.1	11.1	7.5	5.0	F5DEC4220(1)X7(2)
100	2.20	100	6.1	11.1	7.5	5.0	F5DEC4220(1)E7(2)
100	2.20	220	6.1	11.1	7.5	5.0	F5DEC4220(1)G7(2)
100	2.20	470	6.1	11.1	7.5	5.0	F5DEC4220(1)A7(2)
100	2.20	680	6.1	11.1	7.5	5.0	F5DEC4220(1)H7(2)
100	2.20	1,000	6.1	11.1	7.5	5.0	F5DEC4220(1)C7(2)
100	2.20	2,200	6.1	11.1	7.5	5.0	F5DEC4220(1)F7(2)
100	2.20	4,700	6.1	11.1	7.5	5.0	F5DEC4220(1)B7(2)
100	2.20	6,800	6.1	11.1	7.5	5.0	F5DEC4220(1)N7(2)
100	2.20	10,000	6.1	11.1	7.5	5.0	F5DEC4220(1)D7(2)
100	2.20	47,000	6.1	11.1	7.5	5.0	F5DEC4220(1)R7(2)
100	2.20	68,000	6.1	11.1	7.5	5.0	F5DEC4220(1)T7(2)
100	2.20	100,000	6.1	11.1	7.5	5.0	F5DEC4220(1)S7(2)
100	2.20	100,000	6.1	11.1	7.5	5.0	F5DEC4220(1)S7(2)
Rated Voltage (VDC)	Film Cap (μF)	Ceramic Cap (pF)	B (mm)	H (mm)	L (mm)	Lead Space	Part Number

Other part number options:

- (1) Packaging and lead length: See Table 1 for options (two letter alpha code)
 (2) Capacitance tolerance: K = +/-10%, M = +/-20%

Maximum Soldering Temperature

- Set the temperature so that inside the element the maximum temperature is below 160°C
- Solder within the following temperature profiles, especially for iron soldering.



General Conditions

- If two solderings are needed, please apply a recovery time until the temperature on the capacitor surface is below 50°C.
- Avoid any passing through adhesive curing oven when fixing surface mount parts in combination with through-hole parts. Insert through-hole parts only after the curing of surface mount parts.
- Avoid reflow soldering by combining the lead type with surface mount parts.

Marking

- Film capacitance
- Ceramic capacitance
- Tolerance
- DC rated voltage
- Series (F5D)
- Manufacturing date code

Lead Taping and Packaging of Radial Components for Robot Insertion Machines

Technical terms: IEC 60286-2

Pitch = 10 mm

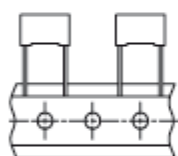


Fig. 1

Pitch = 15 mm

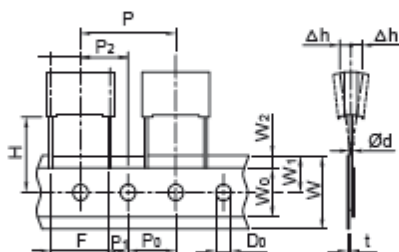


Fig. 2

Pitch = 22.5 mm
Pitch = 27.5 mm

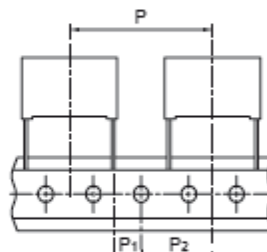


Fig. 3

Description	Symbol	Dimensions (mm)				
		Pitch				Tol.
		10 mm Fig.1	15 mm Fig.2	22.5mm Fig.3	27.5mm Fig.3	
Lead wire diameter	d	0.6	0.6/0.8	0.8	0.8	±0.05
Taping pitch	P	25.4	25.4	38.1	38.1	±1
Feed hole pitch*	P ₀	12.7	12.7	12.7	12.7	±0.2**
Centering of the lead wire	P ₁	7.7	5.2	7.8	5.3	±0.7
Centering of the body	P ₂	12.7	12.7	19.05	19.05	±1.3
Lead spacing (pitch) ***	F	10	15	22.5	27.5	+ 0.6 - 0.1
Component alignment	Δh	0	0	0	0	±2
Height of component from tape center	H****	18.5	18.5	18.5	18.5	±0.5
Carrier tape width	W	18	18	18	18	+1-0.5
Hold down tape width	W ₀	9	10	10	10	min.
Hole position	W ₁	9	9	9	9	±0.5
Hold down tape position	W ₂	3	3	3	3	max.
Feed hole diameter	D ₀	4	4	4	4	±0.2
Tape thickness	t	0.7	0.7	0.7	0.7	±0.2

Remarks

* Available also 15mm.

** Max 1mm on 20 pitches.

*** Pitches 15mm and 10mm taped to 7.5mm (crimped leads) available upon request.

**** H = 16.5 mm is available upon request.

KEMET Corporation World Headquarters

2835 KEMET Way
Simpsonville, SC 29681

Mailing Address:
P.O. Box 5928
Greenville, SC 29606

www.kemet.com
Tel: 864-963-6300
Fax: 864-963-6521

Corporate Offices

Fort Lauderdale, FL
Tel: 954-766-2800

North America

Southeast

Lake Mary, FL
Tel: 407-855-8886

Northeast

Wilmington, MA
Tel: 978-658-1663

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Tel: 610-692-4642

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Tel: 847-882-3590

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Tel: 317-706-6742

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Tel: 408-433-9950

Mexico

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Tel: 52-33-3123-2141

Europe

Southern Europe

Geneva, Switzerland
Tel: 41-22-715-0100

Paris, France
Tel: 33-1-4646-1009

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Tel: 39-051-939111

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Rome, Italy
Tel: 39-06-23231718

Madrid, Spain
Tel: 34-91-804-4303

Central Europe

Landsberg, Germany
Tel: 49-8191-3350800

Dortmund, Germany
Tel: 49-2307-3619672

Kwidzyn, Poland
Tel: 48-55-279-7025

Northern Europe

Bishop's Stortford, United Kingdom
Tel: 44-1279-757201

Weymouth, United Kingdom
Tel: 44-1305-830747

Coatbridge, Scotland
Tel: 44-1236-434455

Färjestaden, Sweden
Tel: 46-485-563934

Espoo, Finland
Tel: 358-9-5406-5000

Asia

Northeast Asia

Hong Kong
Tel: 852-2305-1168

Shenzhen, China
Tel: 86-755-2518-1306

Beijing, China
Tel: 86-10-5829-1711

Shanghai, China
Tel: 86-21-6447-0707

Taipei, Taiwan
Tel: 886-2-27528585

Southeast Asia

Singapore
Tel: 65-6586-1900

Penang, Malaysia
Tel: 60-4-6430200

Bangalore, India
Tel: 91-806-53-76817

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Other KEMET Resources

Tools	
Resource	Location
Configure A Part: CapEdge	http://capacitoredge.kemet.com
SPICE & FIT Software	http://www.kemet.com/spice
Search Our FAQs: KnowledgeEdge	http://www.kemet.com/keask

Product Information	
Resource	Location
Products	http://www.kemet.com/products
Technical Resources (Including Soldering Techniques)	http://www.kemet.com/technicalpapers
RoHS Statement	http://www.kemet.com/rohs
Quality Documents	http://www.kemet.com/qualitydocuments

Product Request	
Resource	Location
Sample Request	http://www.kemet.com/sample
Engineering Kit Request	http://www.kemet.com/kits

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Website	www.kemet.com
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Investor Relations	http://www.kemet.com/ir
Call Us	1-877-MyKEMET
Twitter	http://twitter.com/kemetcapacitors

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Although we design and manufacture our products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

Warning: The component F5D is a combined passive suppression component. Overloading with high voltage or voltage transients can strongly damage the component with the risk of fire.

