

Miniature Metallized Polyester Film Capacitors



MPEM Series
(Radial Dipped)

MERITEK

FEATURES

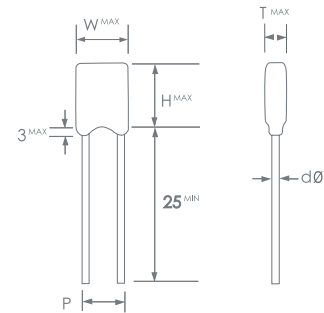
- Space saving miniature size
- Non-inductive construction
- Self-healing properties
- Good solderability
- Available on tape and reel for automatic insertion

SPECIFICATIONS

1. Operating temperature: -40°C to +85°C
2. Capacitance range: 0.01μF to 1.0μF
3. Capacitance tolerance: ±5%(J), ±10%(K), ±20%(M)
4. Rated voltage: 50VDC, 63VDC, 100VDC, 250VDC
5. Dissipation factor: 1.0% max. at 1KHz, 25 °C
6. Insulation resistance: >10000MΩ (C ≤ 0.33 μF)
> 3300MΩ • μF (C > 0.33 μF)



MPEM are constructed with a special metallized polyester film dielectric, tinned copper leads, and an epoxy resin coating. They are suitable for blocking, circuit isolation, bypassing, filtering, and signal coupling and decoupling. MPEM are ideal for use in telecommunication equipment, data processing equipment, industrial instruments, and automatic control systems.



Dimensions in millimeters (mm)

MPEM154K1JTR

Meritek Series

Capacitance

CODE	103	104	105
(pF)	10,000	100,000	
(nF)	10	100	1000
(μF)	0.01	0.1	1

Tolerance

CODE	J	K	M
Tolerance (%)	± 5	± 10	± 20

Rated Voltage

CODE	1H	1J	2A	2E
	50V	63V	100V	250V

Packaging

CODE	Blank	TR	TA
	Bulk	Tape & Reel	Tape & Ammo

Lead spacing (optional)

CODE	-5	-7.5
	5 mm	7.5 mm

RV	50VDC/63VDC				100VDC				250VDC			
DIM.	W	H	T	P	W	H	T	P	W	H	T	P
CAP(μF)												
0.010					7.5	7.5	3.5	5.0				
0.012					7.5	7.5	3.5	5.0				
0.015					7.5	7.5	3.5	5.0				
0.018					7.5	7.5	3.5	5.0	10.0	8.5	4.0	7.5
0.022					7.5	7.5	3.5	5.0	10.0	8.5	4.0	7.5
0.027					7.5	7.5	3.5	5.0	10.0	8.5	4.0	7.5
0.033					7.5	7.5	3.5	5.0	10.0	8.5	4.0	7.5
0.039					7.5	7.5	3.5	5.0	10.0	8.5	4.0	7.5
0.047	7.5	7.5	3.5	5.0	7.5	7.5	3.5	5.0	10.0	8.5	4.0	7.5
0.056	7.5	7.5	3.5	5.0	7.5	7.5	3.5	5.0				
0.068	7.5	7.5	3.5	5.0	7.5	7.5	3.5	5.0				
0.082	7.5	7.5	3.5	5.0	7.5	8.0	4.0	5.0				
0.10	7.5	7.5	3.5	5.0	7.5	8.5	4.0	5.0				
0.12	7.5	7.5	3.5	5.0								
0.15	7.5	8.0	4.0	5.0								
0.18	7.5	8.5	4.5	5.0								
0.22	7.5	8.5	4.5	5.0								
0.27	7.5	9.0	5.0	5.0								
0.33	7.5	9.5	5.5	5.0								
0.39	7.5	9.5	5.5	5.0								
0.47	7.5	9.5	6.0	5.0								
0.56	7.5	9.5	6.0	5.0								
0.68	7.5	9.5	6.0	5.0								
0.82	7.5	10.0	6.0	5.0								
1.0	7.5	10.5	6.0	5.0								