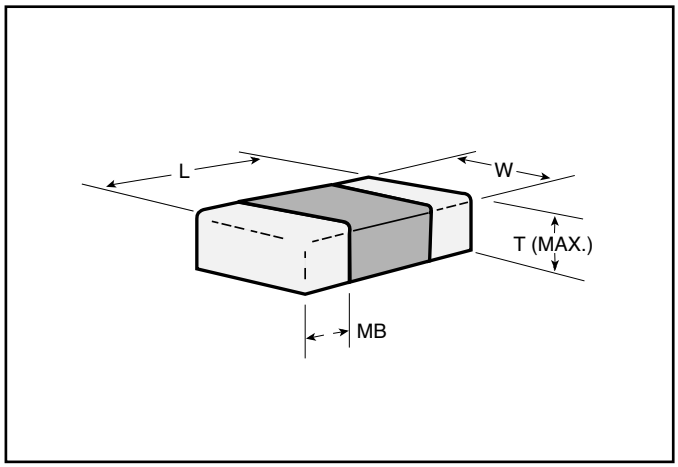
ATC HP 0603 Series High Performance NPO Ceramic MLCs

Electrical Characteristics:

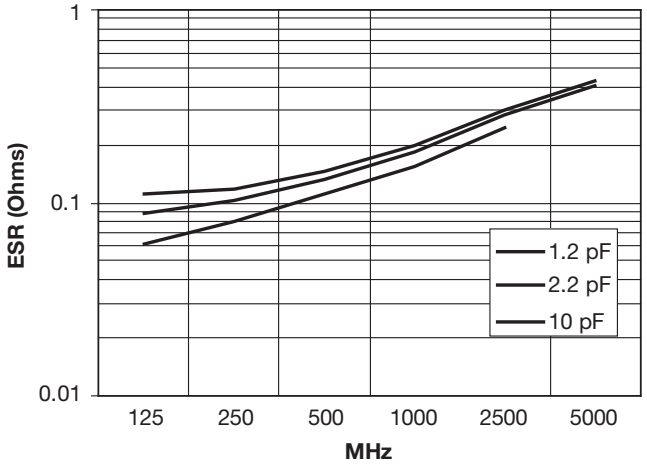
Capacitance Range:	1.0 pF to 120 pF @ 1 MHz
Temperature Coeffiecent of Capacitance:	0 ± 30 ppm/°C (-55° to +125°C)
Insulation Resistance (IR)	10^{12} Ω min. @ 25°C and rated WVDC 10^{11} Ω min. @ 125°C and rated WVDC
Dielectric Working Voltage (DWV):	250% of rated WVDC
Working Voltage (WVDC)	250, 100, 50 WVDC

ATC offers the new HP Series high performance family of MLC ceramic capacitors. Built in a rugged ceramic SMT package, these products deliver high performance at the right price. The HP series is available in four popular EIA case sizes and is suitable for tuning, DC blocking, coupling and bypassing over the full range of wireless frequencies. All HP Series products are RoHS compliant.

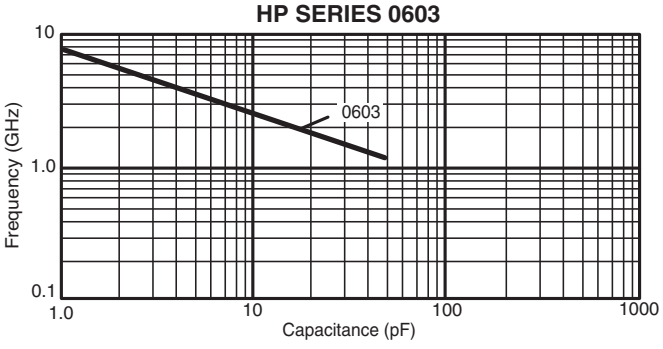


Case Size	0603
Length (L)	0.060 ±0.010 (1.52 ±0.25)
Width (W)	0.030 ±0.010 (0.76 ±0.25)
T Max.	0.036 (0.91)
Term. (MB) Max.	0.010 ±0.005 (0.25 ±0.13)

TYPICAL ESR vs. FREQUENCY
HP SERIES 0603



TYPICAL
SERIES RESONANT FREQUENCY
HP SERIES 0603



Capacitance Values:

CAP. CODE	CAP. (pF)	TOL.	RATED WVDC	CAP. CODE	CAP. (pF)	TOL.	RATED WVDC	CAP. CODE	CAP. (pF)	TOL.	RATED WVDC	CAP. CODE	CAP. (pF)	TOL.	RATED WVDC
1R0	1.0	B, C, D	250	2R7	2.7	B, C, D	250	9R1	9.1	B, C	250	360	36	F, G, J, K	250
1R1	1.1			3R0	3.0			100	10	F, G, J, K		390	39		
1R2	1.2			3R3	3.3			110	11			430	43		
1R3	1.3			3R6	3.6			120	12			470	47		
1R4	1.4			3R9	3.9			130	13			510	51		
1R5	1.5			4R3	4.3			150	15			560	56		
1R6	1.6			4R7	4.7			180	18			680	68		100
1R7	1.7			5R1	5.1			200	20			750	75		
1R8	1.8			5R6	5.6			220	22			820	82		
1R9	1.9			6R2	6.2			240	24			910	91		
2R0	2.0			6R8	6.8			270	27			101	100		
2R1	2.1			7R5	7.5	B, C		300	30			111	110		50
2R2	2.2			8R2	8.2			330	33			121	120		
2R4	2.4														

Part Number Code

0603 HP 10 0 J T 250 T

- Size Code: 0603
- Series: HP
- First 2 Signficant Digits For Capacity: 10
- Indicates number of zeros following digits of capacitance in picofarads R=Decimal Point: 0
- Capacitance Tolerance: J

CAPACITANCE TOLERANCE							
Code	B	C	D	F	G	J	K
Tol.	±0.1 pF	±0.25 pF	±0.5 pF	±1%	±2%	±5%	±10%

- Terminataion Code: T = Tin plated over Nickel Barrier (Standard), RoHS Compliant
- WVDC: 250
- Packaging: T=7" Reel, 0603: 4,000 piece reel: T

The above part number refers to an ATC HP 0603 Series 10 pF capacitor, J tolerance (±5%), 250 WVDC, with T termination (Tin Plated over Nickel Barrier), on 7 inch reel.

For additional information and catalogs contact your ATC representative or call direct at (+1-631) 622-4700.
Consult factory for additional performance data.

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