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# Touch “N” Tune™ Handheld Capacitor Elements Speed Up the Circuit Tuning Process and Minimize Rework

Vishay has introduced *Touch “N” Tune*™ kits for HIFREQ series capacitors in the 0505 and 0603 case sizes. Requested by engineers, the kits are design tools that enable a quick estimation of a circuit’s performance with the selected capacitance value, before soldering the component onto the circuit board.

With *Touch “N” Tune* kits, engineers can physically touch the capacitor onto the circuit pad location to see its influence on tuning characteristics. Once the desired tuning value is obtained, engineers can then solder and test samples from our VJ HIFREQ Design Kits.

The 0505 and 0603 kits range in values from 0.1 pF to 100 pF. The characteristics of each *Touch “N” Tune* value is representative of all the 0505 and 0603 HIFREQ series MLCCs available. Vishay’s VJ HIFREQ series MLCCs with precious metal electrodes and a high Q dielectric system offer the low loss advantage desired in high frequency power applications.



## Touch “N” Tune Capacitance Values

Kit number VJ0505DRFTNTKIT includes the capacitance values:

Vishay Part #	Cap. Value (pF)	Tol.	WVDC	Vishay Part #	Cap. Value (pF)	Tol.	WVDC	Vishay Part #	Cap. Value (pF)	Tol.	WVDC
1. VJ0505D0R1BXP	0.1	± 0.1 pF	250	13. VJ0505D2R7CXP	2.7	± 0.25 pF	250	25. VJ0505D200JXP	20.0	± 5 %	250
2. VJ0505D0R2BXP	0.2	± 0.1 pF	250	14. VJ0505D3R0CXP	3.0	± 0.25 pF	250	26. VJ0505D220JXP	22.0	± 5 %	250
3. VJ0505D0R3BXP	0.3	± 0.1 pF	250	15. VJ0505D3R3CXP	3.3	± 0.25 pF	250	27. VJ0505D240JXP	24.0	± 5 %	250
4. VJ0505D0R5CXP	0.5	± 0.25 pF	250	16. VJ0505D3R9CXP	3.9	± 0.25 pF	250	28. VJ0505D270JXP	27.0	± 5 %	250
5. VJ0505D0R7CXP	0.7	± 0.25 pF	250	17. VJ0505D4R7CXP	4.7	± 0.25 pF	250	29. VJ0505D300JXP	30.0	± 5 %	250
6. VJ0505D1R0CXP	1.0	± 0.25 pF	250	18. VJ0505D5R6CXP	5.6	± 0.25 pF	250	30. VJ0505D330JXP	33.0	± 5 %	250
7. VJ0505D1R2CXP	1.2	± 0.25 pF	250	19. VJ0505D6R8CXP	6.8	± 0.25 pF	250	31. VJ0505D390JXP	39.0	± 5 %	250
8. VJ0505D1R5CXP	1.5	± 0.25 pF	250	20. VJ0505D8R2CXP	8.2	± 0.25 pF	250	32. VJ0505D470JXP	47.0	± 5 %	250
9. VJ0505D1R8CXP	1.8	± 0.25 pF	250	21. VJ0505D100JXP	10.0	± 5 %	250	33. VJ0505D560JXP	56.0	± 5 %	250
10. VJ0505D2R0CXP	2.0	± 0.25 pF	250	22. VJ0505D120JXP	12.0	± 5 %	250	34. VJ0505D680JXP	68.0	± 5 %	250
11. VJ0505D2R2CXP	2.2	± 0.25 pF	250	23. VJ0505D150JXP	15.0	± 5 %	250	35. VJ0505D820JXP	82.0	± 5 %	250
12. VJ0505D2R4CXP	2.4	± 0.25 pF	250	24. VJ0505D180JXP	18.0	± 5 %	250	36. VJ0505D101JXC	100.0	± 5 %	200



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**Kit number VJ0603DRFTNTKIT includes the capacitance values:**

	Vishay Part #	Cap. Value (pF)	Tol.	WVDC		Vishay Part #	Cap. Value (pF)	Tol.	WVDC		Vishay Part #	Cap. Value (pF)	Tol.	WVDC
1.	VJ0603D0R1BXP	0.1	± 0.1 pF	250	14.	VJ0603D2R2CXP	2.2	± 0.25 pF	250	27.	VJ0603D180JXP	18.0	± 5 %	250
2.	VJ0603D0R2BXP	0.2	± 0.1 pF	250	15.	VJ0603D2R4CXP	2.4	± 0.25 pF	250	28.	VJ0603D200JXP	20.0	± 5 %	250
3.	VJ0603D0R3BXP	0.3	± 0.1 pF	250	16.	VJ0603D2R7CXP	2.7	± 0.25 pF	250	29.	VJ0603D220JXP	22.0	± 5 %	250
4.	VJ0603D0R5CXP	0.5	± 0.25 pF	250	17.	VJ0603D3R0CXP	3.0	± 0.25 pF	250	30.	VJ0603D240JXP	24.0	± 5 %	250
5.	VJ0603D0R6CXP	0.6	± 0.25 pF	250	18.	VJ0603D3R3CXP	3.3	± 0.25 pF	250	31.	VJ0603D270JXP	27.0	± 5 %	250
6.	VJ0603D0R8CXP	0.8	± 0.25 pF	250	19.	VJ0603D3R9CXP	3.9	± 0.25 pF	250	32.	VJ0603D300JXP	30.0	± 5 %	250
7.	VJ0603D0R9CXP	0.9	± 0.25 pF	250	20.	VJ0603D4R7CXP	4.7	± 0.25 pF	250	33.	VJ0603D330JXP	33.0	± 5 %	250
8.	VJ0603D1R0CXP	1.0	± 0.25 pF	250	21.	VJ0603D5R6CXP	5.6	± 0.25 pF	250	34.	VJ0603D390JXP	39.0	± 5 %	250
9.	VJ0603D1R2CXP	1.2	± 0.25 pF	250	22.	VJ0603D6R8CXP	6.8	± 0.25 pF	250	35.	VJ0603D470JXP	47.0	± 5 %	250
10.	VJ0603D1R5CXP	1.5	± 0.25 pF	250	23.	VJ0603D8R2CXP	8.2	± 0.25 pF	250	36.	VJ0603D560JXC	56.0	± 5 %	200
11.	VJ0603D1R6CXP	1.6	± 0.25 pF	250	24.	VJ0603D100JXP	10.0	± 5 %	250	37.	VJ0603D680JXC	68.0	± 5 %	200
12.	VJ0603D1R8CXP	1.8	± 0.25 pF	250	25.	VJ0603D120JXP	12.0	± 5 %	250	38.	VJ0603D820JXC	82.0	± 5 %	200
13.	VJ0603D2R0CXP	2.0	± 0.25 pF	250	26.	VJ0603D150JXP	15.0	± 5 %	250	39.	VJ0603D101JXC	100.0	± 5 %	200

## Useful Links

[Touch “N” Tune Kits datasheet](#)

[VJ HIFREQ Design Kits datasheet](#)

[GA....31M, GA....34G Automotive HIFREQ MLCCs product page](#)

[VJ HIFREQ High Temperature \(HT\) Series product page](#)

[VJ HIFREQ S parameter ZIP files](#)

[Order your 0505 kit here \(VJ0505DRFTNTKIT\)](#)

[Order your 0603 kit here \(VJ0603DRFTNTKIT\)](#)

## Contact Information

The Americas  
**Brian Ward**  
[brian.ward@vishay.com](mailto:brian.ward@vishay.com)

Europe  
**Tatiana Velikanova**  
[tatiana.velikanova@vishay.com](mailto:tatiana.velikanova@vishay.com)

Asia / Pacific  
**Stanley Chan**  
[stanley.chan@vishay.com](mailto:stanley.chan@vishay.com)