

VISHAY VJ HIFREQ Series

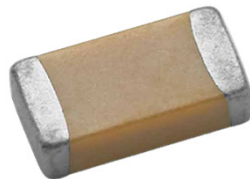
SURFACE MOUNT MLCCs FOR HIGH FREQUENCY APPLICATIONS

Features

- Class 1 NP0 Noble Metal Electrodes
- High Q: > 2000 (at 1MHz)
- Ultra-low ESR
- Case sizes: 0402, 0603, 0805
- Ultra-stable dielectric material (zero aging)
- RoHS Compliant¹
- Operating temperature range: -55°C to +125°C

Applications

- RF and Microwave
- Broadband communication
- Satellite communication
- Base stations
- Medical instrumentation and test
- Military devices (radar, communications, etc.)
- Wireless devices



Voltage	Cap Range (pF)		
	0402	0603	0805
25	1 - 82	1 - 470	1 - 1500
50	1 - 56	1 - 330	1 - 1000
100	1 - 27	1 - 150	1 - 680
200	1 - 15	1 - 100	1 - 390
250		1 - 100	1 - 330
For cap values <10pF, tolerance as tight as ±0.1pF For cap values ≥10pF, tolerance as tight as ±1%			

<http://www.vishay.com/docs/45071/vjihifreq.pdf>

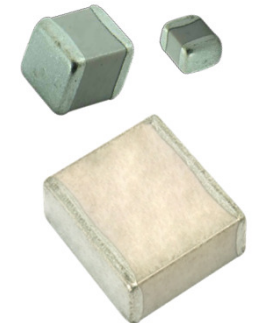
¹Parts terminated with lead-bearing finished (e.g. "L") are not RoHS compliant

VISHAY QUAD HIFREQ Series

HIGH FREQUENCY, HIGH POWER SURFACE MOUNT MLCCs

Features

- Class 1 NP0 Noble Metal Electrodes
- High Q: > 2000 (at 1MHz)
- Ultra-low ESR
- Case sizes: 0505, 1111, and 2525
- Ultra-stable dielectric material (zero aging)
- RoHS Compliant¹
- Operating temperature range: -55°C to +125°C



Applications

- Magnetic Resonance Imaging (MRI)
- UHF / Microwave RF power amplifiers
- Filter networks, timing circuits
- Mixers, oscillators
- Impedance matching networks

Voltage	Cap Range (pF)		
	0505	1111	2525
200	1 - 100		
250	1 - 56		
300		1 - 1000	1 - 2700
500			1 - 2000
630		1 - 470	
800			1 - 2000
1000		1 - 180	1 - 1200
1500		1 - 110	1 - 1200
2000			1 - 470
2500			1 - 270
3000			1 - 270
3600			1 - 100
For cap values <10pF, tolerance as tight as ±0.1pF For cap values ≥10pF, tolerance as tight as ±1%			

<http://www.vishay.com/docs/45221/quadhifreq.pdf>

¹Parts terminated with lead-bearing finished (e.g. "L") are not RoHS compliant
Rev. May 2014



VJ HIFREQ Capacitors “D Dielectric” Cross Reference

Vishay Cross		Competitors' Series					
Vishay Product Series	Vishay Part Number	ATC	AVX	Temex	Novacap	DLI	Johanson
HIFREQ 0402	VJ0402D...	600L	UQCL	SHL		C04	R07S
HIFREQ 0603	VJ0603D...	600S	UQCS	SHS		C06	R14S
HIFREQ 0805	VJ0805D...	600F	UQCF	SHF		C08	R15S
QUAD HIFREQ 0505	VJ0505D...	100A	SQCA	CHA/SHA	RF0505	C11	-
QUAD HIFREQ 1111	VJ1111D...	100B	SQCB	CHB/ NHB/SHB	RF1111	C17/C18	S42E
QUAD HIFREQ 2525	VJ2525D...	100C			RF2525	C22	S48E
QUAD HIFREQ 3838¹	VJ3838D...	100E				C40	S58E

¹Available mid 2014