

Chip Monolithic Ceramic Capacitor

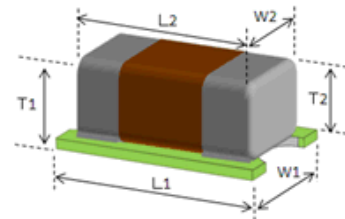
Electrical Characteristics Data



Murata Global Part No	Size (inch/mm)	Temp. Chara.	Cap.Value	Cap.Tol.	Volt.	Durability (%Rated Volt.)
ZRA21MC8YA105KE11	0906/2416	X6S	1uF	+/-10%	35V	150 %

1. Dimension

ZRA size	L1	W1	T1
SPEC	2.4+/-0.1	1.65+/-0.1	1.15+0.05/-0.15
AVG	2.385	1.641	1.049
MAX	2.393	1.653	1.057
MIN	2.378	1.633	1.036
σ	0.005	0.007	0.006
GRM size	L2	W2	
	2.0	1.25	



2. Cap,DF,IR

Capacitance,DF : 1kHz , 1Vrms

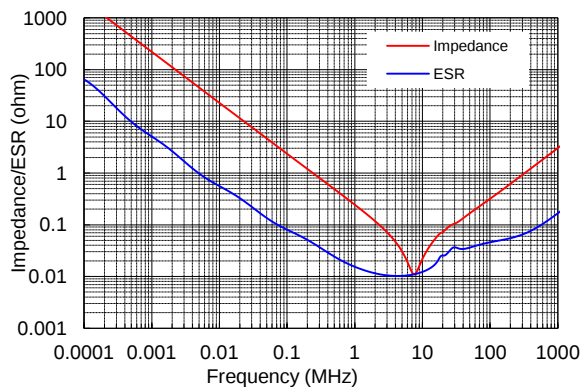
IR : 50V , 60s

(n=10)

Item	Cap.[μ F]	DF	IR[M ohm]
SPEC	0.9 to 1.1	0.1 max.	50.0 min.
AVG	1.05	0.08	4928
MAX	1.06	0.09	8182
MIN	1.04	0.08	2917

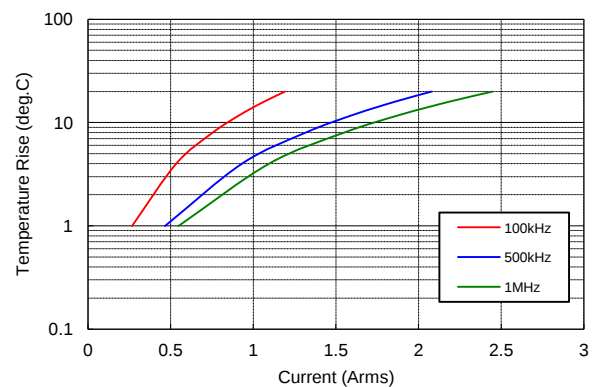
3. Impedance/ESR - Frequency

Equipment: E5061B/E5071C(PC-SMA-SR/YOKOWO)



4. Temperature Rise - Ripple Current(Only for reference)

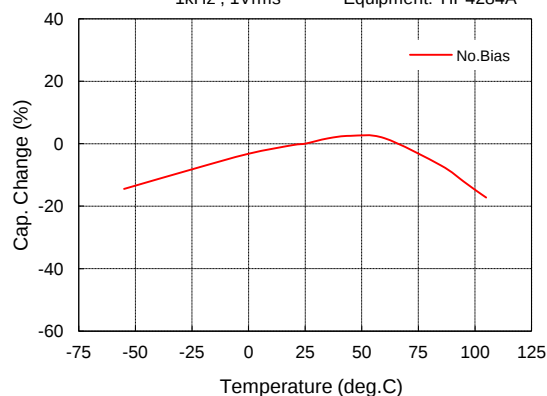
Equipment: Temperature Rise - Ripple Current Measurement system



5. Capacitance - Temperature Characteristics

1kHz , 1Vrms

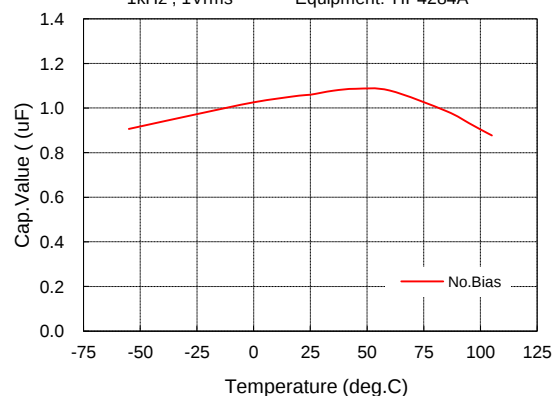
Equipment: HP4284A



5. Capacitance - Temperature Characteristics

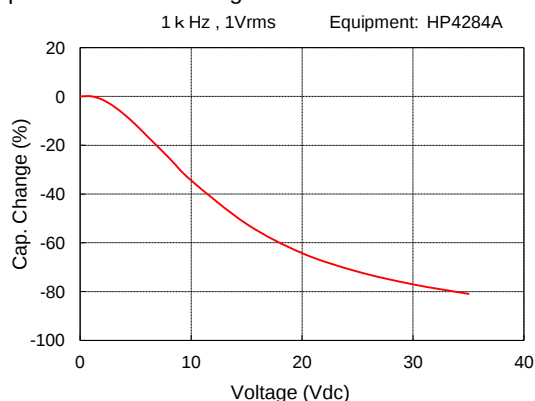
1kHz , 1Vrms

Equipment: HP4284A

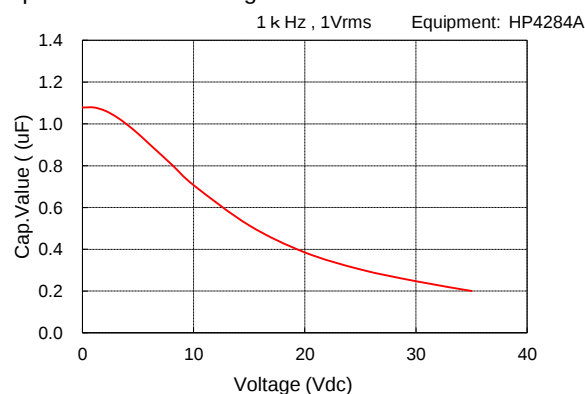


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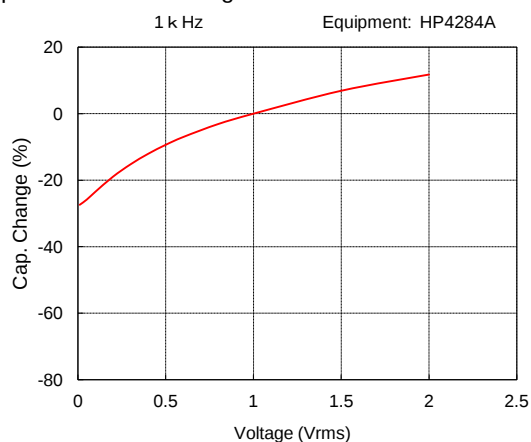
6. Capacitance - DC Voltage Characteristics



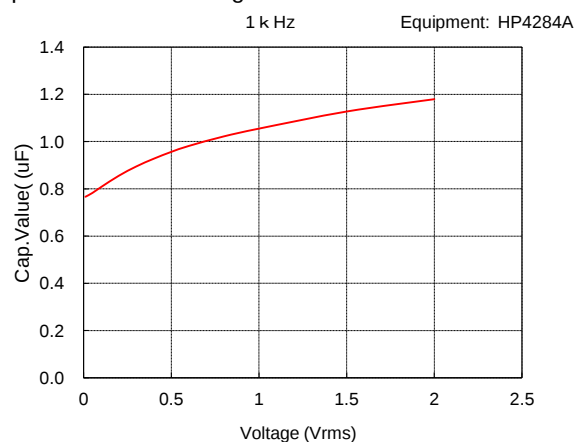
6. Capacitance - DC Voltage Characteristics



7. Capacitance - AC Voltage Characteristics



7. Capacitance - AC Voltage Characteristics



8 Acoustic noise(Spectrum)

n=3 Ave. each

