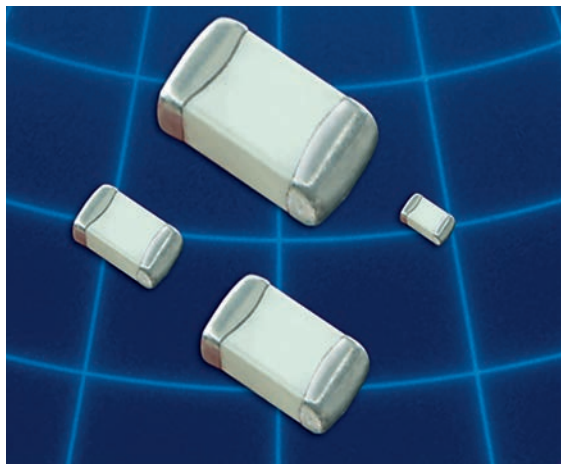


MULTI-LAYER HIGH-Q CAPACITORS



These lines of multilayer capacitors have been developed for High-Q and microwave applications.

- The S-Series (R07S, R14S, R15S) capacitors give an ultra-high Q performance, and exhibit NP0 temperature characteristics.

- The L-Series (R05L) capacitors give mid-high Q performance, and exhibit NP0 temperature characteristics.

- The E-Series (S42E, S48E, S58E) capacitors give excellent high-Q performance from HF to Microwave frequencies. Typical uses are high voltage, high current applications. They are offered in chip (Ni barrier or Non-Magnetic Pt.-Ag) or in Non-Magnetic leaded form.

- RoHS compliance is standard for all unleaded parts (see termination options box).

- Automotive versions (AEC-Q200) of R05L, R07S, R14S, R15S, and S42E series are available on request

HOW TO ORDER

252	S48	E	470	K	V	4	E	-AEC
WVDC² 250 = 25 V 500 = 50V 201 = 200 V 251 = 250 V 501 = 500 V 102 = 1000 V 152 = 1500 V 252 = 2500 V 362 = 3600 V 722 = 7200 V	CASE SIZE R05 (0201) R07 (0402) R14 (0603) R15 (0805) S42 (1111) S48 (2525) S58 (3838)	CAPACITANCE (pF) 1st two digits are significant; third digit denotes number of zeros, R = decimal. 100 = 10 pF 101 = 100 pF	TOLERANCE < 10pF A = ± 0.05 pF B = ± 0.10 pF C = ± 0.25 pF D = ± 0.50 pF ≥ 10pF F = ±1 % G = ±2% J = ±5% K = ± 10% For tolerance availability, see chart.	TERMINATION Nickel Barrier V = Ni/Sn (Green) T = Ni/SnPb G = Ni/Au (Green) Non-Mag ¹ U = Cu/Sn (Green) C = Cu/SnPb Leaded (All Non-Mag) ¹ 1 = Microstrip 2 = Axial Ribbon 3 = Axial Wire 4 = Radial Ribbon 5 = Radial Wire	PACKAGING S = Bulk W = Waffle Pack <u>0201 - 0603</u> Y = Paper 5" Reel T = Paper 7" Reel R ¹ = Paper 13" Reel J ¹ = Paper 5" Reel - Horizontally Oriented Electrodes N ¹ = Paper 5" Reel - Vertically Oriented Electrodes L ¹ = Paper 7" Reel - Horizontally Oriented Electrodes V ¹ = Paper 7" Reel - Vertically Oriented Electrodes <u>0805 - 3838</u> Z = Embossed 5" Reel E = Embossed 7" Reel U ¹ = Embossed 13" Reel M ¹ = Embossed 5" Reel - Horizontally Oriented Electrodes Q ¹ = Embossed 5" Reel - Vertically Oriented Electrodes G ¹ = Embossed 7" Reel - Horizontally Oriented Electrodes P ¹ = Embossed 7" Reel - Vertically Oriented Electrodes Tape specifications conform to EIA RS481	QUALIFICATION AEC-Q200 qualification ³ (optional)		
Part Number written: 252S48E470KV4E		DIELECTRIC S = Ultra High Q NPO L = High Q NPO E = Ultra High Q NPO, High Voltage, High Power G = Fully Oriented, Ultra High-Q NPO	MARKING 3 = Cap Code & Tolerance 4 = No Marking 6 = EIA Code (Marking option is only available on 0805 and larger case sizes)					





Part Number written:
252S48E470KV4E

¹ - Not available for all MLCC - Call factory for info.

² - WVDC - Working Voltage DC.

³ -Qualification required for automotive application, Not available for all series - Call factory for info.



Low ESR / High-Q CAPACITOR SELECTION CHART

EIA Size Cap. Value		RF Power Applications										
		0201 (R05)		0402	0603	0805	0805	1111	2525	3838		
		NPO (R05L)	NPO (R05G)	(R07S)	(R14S)	(R15S)	(R15G)	(S42E)	(S48E)	(S58E)		
Capacitance pF	Code											
0.1	0R1	A B C D										
0.2	0R2		25/50 V	25 V	50/250 V	250 V			500V	1500V		
0.3	0R3		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V		
0.4	0R4		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V		
0.5	0R5		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	
0.6	0R6		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
0.7	0R7		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
0.8	0R8		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
0.9	0R9		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.0	1R0		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.1	1R1		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.2	1R2		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.3	1R3		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.4	1R4		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.5	1R5		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.6	1R6		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.7	1R7		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.8	1R8		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
1.9	1R9		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
2.0	2R0		25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
2.1	2R1	25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
2.2	2R2	25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
2.4	2R4	25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
2.7	2R7	25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
3.0	3R0	25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
3.3	3R3	25/50 V	25 V	50/250 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
3.6	3R6	25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
3.9	3R9	25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
4.3	4R3	25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
4.7	4R7	25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V	
5.1	5R1	A** B C D	25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
5.6	5R6		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
6.2	6R2		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
6.8	6R8		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
7.5	7R5		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
8.2	8R2	F G J K	25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
9.1	9R1		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
10	100		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
11	110		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
12	120		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
13	130		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
15	150		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
16	160		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
18	180		25/50 V	25 V	50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
20	200		25/50 V		50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
22	220		25/50 V		50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
24	240		25/50 V		50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
27	270		25/50 V		50/200 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
30	300		25/50 V		50 V	250 V	250 V	1000V	500V	1500V	2500V	3600V
33	330		25/50 V		50 V	250 V	250 V	1000V	500V	1500V	2500V	3600V

Consult factory for Non-Standard values.

**A tolerance only available for R07S (0402) and R14S(0603) caps

LOW ESR / HIGH-Q CAPACITOR SELECTION CHART

EIA Size Cap. Value			RF Power Applications									
			0201 (R05)		0402 (R07S)	0603 (R14S)	0805 (R15S)	0805 (R15G)	1111 (S42E)	2525 (S48E)	3838 (S58E)	
			NPO (R05L)	NPO (R05G)								
Capacitance pF	Code	Tolerance										
36	360	F	25/50 V			250 V	250 V	1000V	500V	1500V	2500V	3600V 7200V
39	390		25/50 V			250 V	250 V	1000V	500V	1500V	2500V	3600V 7200V
43	430		25/50 V			250 V	250 V	1000V	500V	1500V	2500V	3600V 7200V
47	470		25/50 V			250 V	250 V	1000V	500V	1500V	2500V	3600V 7200V
51	510		25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
56	560		25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
62	620		25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
68	680		25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
75	750		25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
82	820		25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
91	910	G	25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
100	101		25/50 V			250 V	250 V	500V	500V	1500V	2500V	3600V 7200V
110	111						250 V		300V	1500V	2500V	3600V 7200V
120	121						250 V		300V	1000V	2500V	3600V 7200V
130	131						250 V		300V	1000V	2500V	3600V 7200V
150	151						250 V		300V	1000V	2500V	3600V 7200V
160	161						250 V		300V	1000V	2500V	3600V 7200V
180	181						250 V		300V	1000V	2500V	3600V 7200V
200	201						250 V		300V	1000V	2500V	3600V
220	221						250 V		200V	1000V	2500V	3600V
240	241	J							200V	600V	2500V	3600V
270	271								200V	600V	2500V	3600V
300	301								200V	600V	1500V	3600V
330	331								200V	600V	1500V	3600V
360	361								200V	600V	1500V	3600V
390	391								200V	500V	1500V	3600V
430	431								200V	500V	1500V	2500V
470	471								200V	500V	1500V	2500V
510	511								200V	500V	1000V	2500V
560	561								200V	500V	1000V	2500V
620	621	K							200V	500V	1000V	2500V
680	681								200V		1000V	2500V
750	751								200V		1000V	2500V
820	821								200V		1000V	2500V
910	911								200V		1000V	1000V
1000	102								200V		1000V	1000V
1200	122										1000V	1000V
1500	152										500V	1000V
1800	182										500V	1000V
2200	222										300V	1000V
2700	272										300V	500V
3300	332											500V
3900	392											500V
4700	472											500V
5100	512											500V
10000	103											

Consult factory for Non-Standard values.



DIELECTRIC CHARACTERISTICS

NPO

TEMPERATURE COEFFICIENT:	$0 \pm 30 \text{ ppm } ^\circ\text{C}, -55 \text{ to } 125^\circ\text{C}$	
QUALITY FACTOR / DF:	$Q > 1,000 @ 1 \text{ KHz } (C > 1,000 \text{ pF}), \text{ Typical } 10,000 (C < 1,000 \text{ pF})$	
INSULATION RESISTANCE:	$> 100 \text{ G}\Omega @ 25^\circ\text{C}, \text{ WVDC}^1$; $125^\circ\text{C IR is } 10\% \text{ of } 25^\circ\text{C rating}$	
DIELECTRIC STRENGTH:	$500 \text{ V} \leq 2.5 \times \text{WVDC}^1 \text{ Min., } 25^\circ\text{C}, 50 \text{ mA max}$ $1000 \text{ V} \leq 1.5 \times \text{WVDC}^1 \text{ Min., } 25^\circ\text{C}, 50 \text{ mA max}$ $> 1500 = 1 \times \text{WVDC}^1 \text{ Min., } 25^\circ\text{C}, 50 \text{ mA max}$	
TEST PARAMETERS::	$1 \text{ MHz} \pm 50 \text{ kHz}, 1.0 \pm 0.2 \text{ VRMS}, 25^\circ\text{C}$	
AVAILABLE CAPACITANCE:		
Size 0201:	0.2 - 100 pF	Size 1111: 0.2 - 1000 pF
Size 0402:	0.2 - 33 pF	Size 2525: 1.0 - 2700 pF
Size 0603:	0.2 - 100 pF	Size 3838: 1.0 - 5100 pF
Size 0805:	0.3 - 220 pF	

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

	SPECIFICATION	TEST PARAMETERS
SOLDERABILITY:	Solder coverage $\geq 90\%$ of metalized areas No termination degradation	Preheat chip to $120^\circ\text{--}150^\circ\text{C}$ for 60 sec., dip terminals in rosin flux then dip in Sn62 solder @ $240^\circ \pm 5^\circ\text{C}$ for 5 ± 1 sec
RESISTANCE TO SOLDERING HEAT:	No mechanical damage Capacitance change: $\pm 2.5\%$ or 0.25 pF $Q > 500 \text{ I.R. } > 10 \text{ G Ohms}$ $\text{DWV}^2: 2.5 \times \text{WVDC}^1$	Preheat device to $80^\circ\text{--}100^\circ\text{C}$ for 60 sec. followed by $150^\circ\text{--}180^\circ\text{C}$ for 60 sec. Dip in $260^\circ \pm 5^\circ\text{C}$ solder for 10 ± 1 sec. Measure after 24 ± 2 hour cooling period
TERMINAL ADHESION:	Termination should not pull off. Ceramic should remain undamaged.	Linear pull force ³ exerted on axial leads soldered to each terminal.
PCB DEFLECTION:	No mechanical damage. Capacitance change: 2% or 0.5 pF Max	Glass epoxy PCB: $0.5 \text{ mm deflection}$
LIFE TEST:	MIL-STD-202, Method 108I No mechanical damage Capacitance change: $\pm 3.0\%$ or 0.3 pF $Q > 500 \text{ I.R. } > 1 \text{ G Ohms}$ $\text{DWV}^2: 2.5 \times \text{WVDC}^1$	Applied voltage: 200% of WVDC^1 for capacitors rated at 500 volts DC or less. 100% of WVDC^1 for capacitors rated at 1250 volts DC or less. Temperature: $125^\circ \pm 3^\circ\text{C}$ Test time: $1000 + 48 - 0$ hours
THERMAL CYCLE:	No mechanical damage. Capacitance change: $\pm 2.5\%$ or 0.25 pF $Q > 2000 \text{ I.R. } > 10 \text{ G Ohms}$ $\text{DWV}^2: 2.5 \times \text{WVDC}^1$	5 cycles of: 30 ± 3 minutes @ $-55^\circ + 0 / -3^\circ\text{C}$, $2 - 3$ min. @ 25°C , 30 ± 3 min. @ $+125^\circ + 3 / -0^\circ\text{C}$, $2 - 3$ min. @ 25°C Measure after 24 ± 2 hour cooling period
HUMIDITY, STEADY STATE:	No mechanical damage. Capacitance change: $\pm 5.0\%$ or 0.50 pF max . $Q > 300 \text{ I.R. } \geq 1 \text{ G-Ohm}$ $\text{DWV}^2: 2.5 \times \text{WVDC}^1$	Relative humidity: $90 - 95\%$ Temperature: $40^\circ \pm 2^\circ\text{C}$ Test time: $500 + 12 / -0$ Hours Measure after 24 ± 2 hour cooling period
HUMIDITY, LOW VOLTAGE:	No mechanical damage. Capacitance change: $\pm 5.0\%$ or 0.50 pF max . $Q > 300 \text{ I.R. } = 1 \text{ G-Ohm min.}$ $\text{DWV}^2: 2.5 \times \text{WVDC}^1$	Applied voltage: $1.5 \text{ VDC}, 50 \text{ mA max}$. Relative humidity: $85 \pm 2\%$ Temperature: $40^\circ \pm 2^\circ\text{C}$ Test time: $240 + 12 / -0$ Hours Measure after 24 ± 2 hour cooling period
VIBRATION:	No mechanical damage. Capacitance change: $\pm 2.5\%$ or 0.25 pF $Q > 1000 \text{ I.R. } \geq 10 \text{ G-Ohm}$ $\text{DWV}^2: 2.5 \times \text{WVDC}^1$	Cycle performed for 2 hours in each of three perpendicular directions Frequency range $10 \text{ Hz to } 55 \text{ Hz to } 10 \text{ Hz}$ traversed in 1 minute. Harmonic motion amplitude: 1.5 mm

¹ - WVDC - Working Voltage DC.

² - DWV - Dielectric Withstanding Voltage.

³ - 0402 $\geq 2.0 \text{ lbs}$, 0603 $\geq 4.0 \text{ lbs (min)}$.

⁴ - Whichever is less.

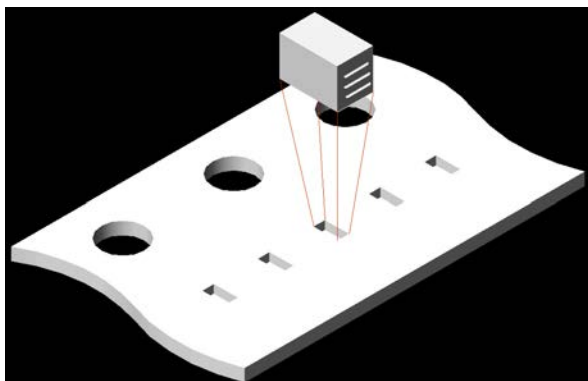
AEC-Q200: Qualification required for automotive application - Not available for all series - Call factory for info.

MECHANICAL CHARACTERISTICS

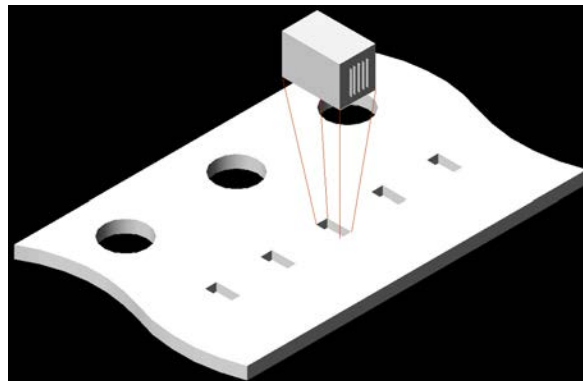
Size	Units	Length	Width	Thickness	End Band
EIA 0201	In	.024 ±.001	.012 ±.001	.012 ±.001	.008 Max.
Metric (0603)	mm	(0.60 ±0.03)	(0.30 ±0.03)	(0.30 ±0.03)	(0.20 Max.)
EIA 0402	In	.040 ±.004	.020 ±.004	.020 ±.004	.010 ±.006
Metric (1005)	mm	(1.02 ±0.1)	(0.51 ±0.1)	(0.51 ±0.1)	(0.25 ±.15)
EIA 0603	In	.062 ±.006	.032 ±.006	.030 +.005/-.003	.014 ±.006
Metric (1608)	mm	(1.57 ±0.15)	(0.81 ±0.15)	(0.76 +.13-.08)	(0.35 ±.15)
EIA 0805	In	.080 ±.008	.050 ±.008	.040 ±.006	.020 ±.010
Metric (2012)	mm	(2.03 ±0.20)	(1.27 ±0.20)	(1.02 ±.15)	(0.50 ±.25)

HORIZONTAL AND VERTICAL ORIENTED CAPACITORS

Horizontal Electrode Orientation



Vertical Electrode Orientation



APPLICATIONS & FEATURES

Size:	EIA 0201, 0402
Performance:	SRF's up to 20 GHz, Ultra High Q, Tight tolerance, Ultralow ESR
Termination:	Ni/Au, Ni/Sn, Ni/SnPb
Applications:	High Frequency Wireless Communications, Portable Wireless Products, Battery Powered Products
RoHS Compliant	

BENEFITS OF USING ORIENTED CAPACITORS

- Consistent Orientation - Improved repeatability of production circuits.
- Consistent Orientation - More consistent filter performance.
- Vertical Orientation - The elimination of parallel frequencies.
- Vertical Orientation - Lower inductance for a given capacitor.
- Horizontal Orientation - Lower coupling between adjacent capacitors.



E-SERIES TERMINATIONS AND LEADS

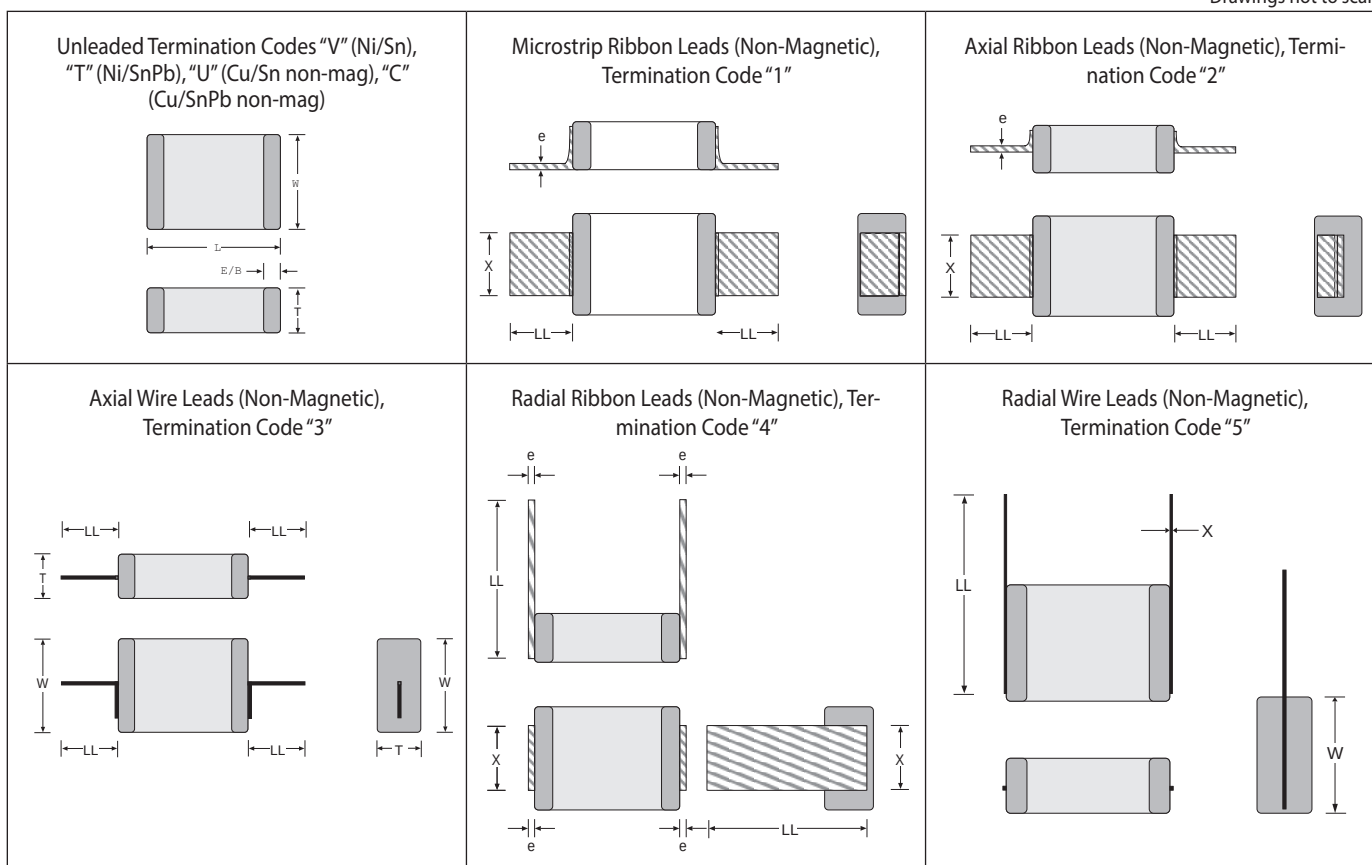
CHIP DIMENSIONS

Termination	Size	Units	L	Tol	W	Tol	T	E / B	Tol
V, T U, C	S42E	In	0.110	+0.020 -0.010	0.110	+/- .015	0.102 Max.	0.015 Typ.	+/- 0.008
		mm	2.79	+0.51 -0.25	2.79	+/- 0.38	2.59 Max.	0.38 Typ.	+/- 0.20
	S48E	In	0.230	+0.025 -0.010	0.250	+/- .015	0.150 Max.	0.025 Typ.	
		mm	5.84	+0.63 -0.25	6.35	+/- 0.38	3.81 Max.	0.63 Typ.	
	S58E	In	0.380	+0.015 -0.010	0.380	+/- .010	0.170 Max.	0.025 Typ.	
		mm	9.65	+0.38 -0.25	9.65	+/- 0.25	4.32 Max.	0.63 Typ.	

For all E-Series Models:

OPERATING TEMP.:	-55 to +125°C
INSULATION RESISTANCE:	>10G Ω @ 25°C
TEMPERATURE COEFFICIENT:	0 $\pm$ 30ppm /°C, -55 to 125°C
DISSIPATION FACTOR (TYP):	< 0.05% @ 1 MHz

Drawings not to scale

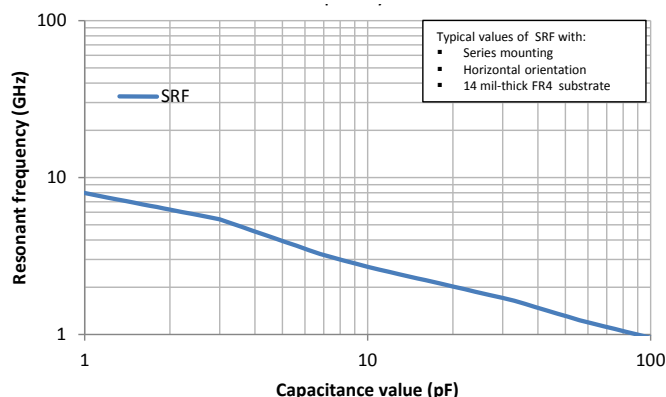


Lead	Size	LL(min)	X	Tol	e	e-Tol
1	S42E	0.25	0.093	+/-0.005	0.004	+/- 0.002
		6.40	2.36	+/- 0.13	0.102	+/- 0.051
	S48E	0.394	0.217	+/- 0.02	0.009	- 0.0019/+ 0.0031
		10.0	5.5	+/- 0.50	0.220	- 0.050/+ 0.080
	S58E	0.748	0.35	+/- 0.02	0.010	- 0.0019/+ 0.0039
		19.00	8.90	+/- 0.50	0.250	- 0.050/+ 0.100
2	S42E	0.25	0.093	+/-0.005	0.004	+/- 0.002
		6.40	2.36	+/- 0.13	0.102	+/- 0.051
	S48E	0.394	0.217	+/- 0.02	0.009	- 0.0019/+ 0.0031
		10.00	5.50	+/- 0.50	0.220	- 0.050/+ 0.080
	S58E	0.748	0.35	+/- 0.02	0.010	- 0.0019/+ 0.0039
		19.00	8.90	+/- 0.50	0.25	- 0.050/+ 0.100
3	S42E	0.25	0.020in (0.511) diameter wire			
		6.40				
	S48E	0.394				
		10.00				
	S58E	0.748				
		19.00				

Lead	Size	LL(min)	X	Tol	e	e-Tol
4	S42E	0.352	0.093	+/-0.005	0.004	+/- 0.002
		8.90	2.36	+/- 0.13	0.102	+/- 0.051
	S48E	0.501	0.217	+/- 0.02	0.009	- 0.0019/+ 0.0031
		12.70	5.50	+/- 0.50	0.220	- 0.050/+ 0.080
	S58E	0.886	0.35	+/- 0.02	0.010	- 0.0019/+ 0.0039
		22.50	8.90	+/- 0.50	0.25	- 0.050/+ 0.100
5	S42E	0.25	0.020in (0.511) diameter wire			
		6.40				
	S48E	0.394				
		10.00				
	S58E	0.748				
		19.00				

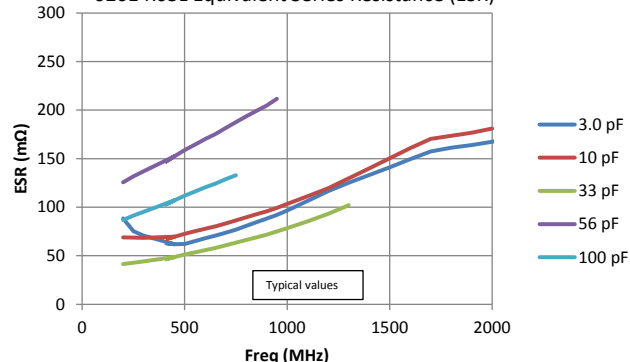
RF CHARACTERISTICS - R05L SERIES

Resonant Frequency : 0201/R05L

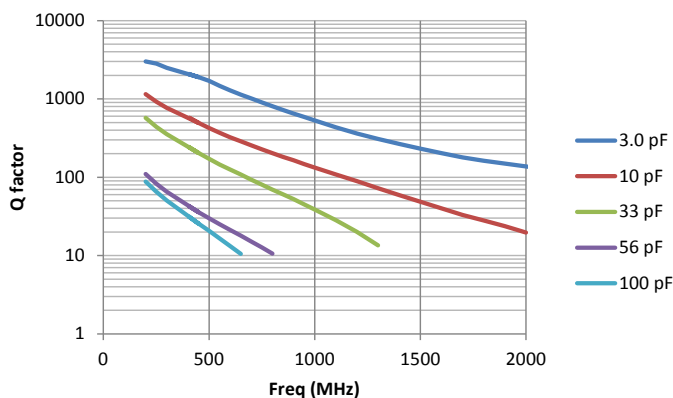


The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.

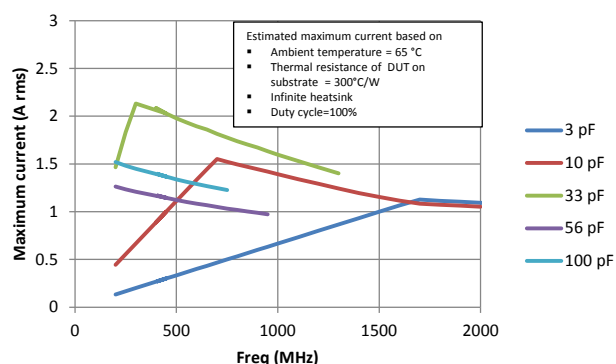
0201 R05L Equivalent Series Resistance (ESR)



0201 R05L Q factor

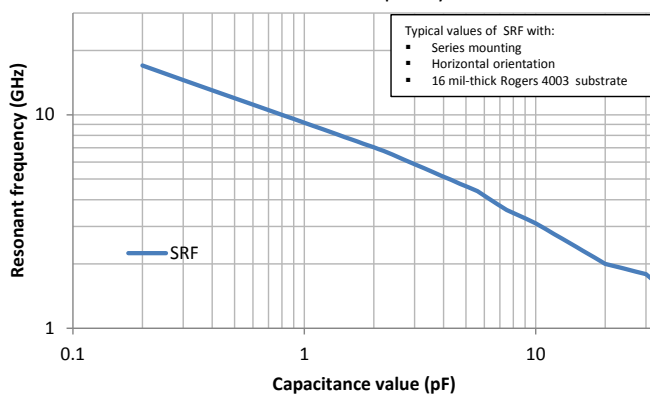


0201 R05L Max Current



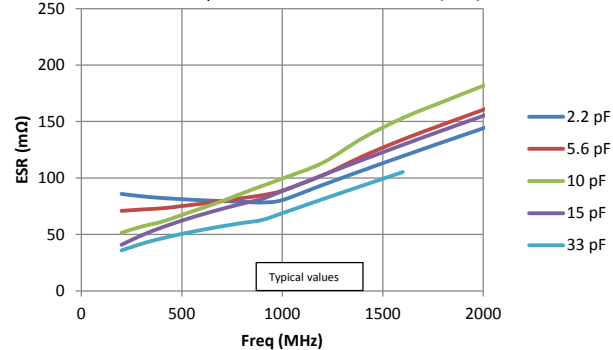
RF CHARACTERISTICS - R07S-SERIES

0402 R07S Series Resonant frequency

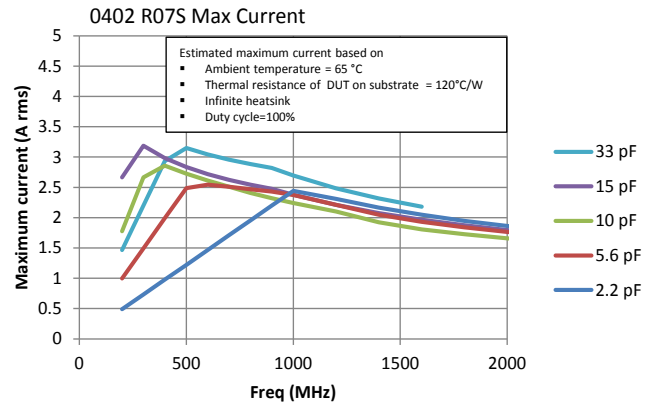
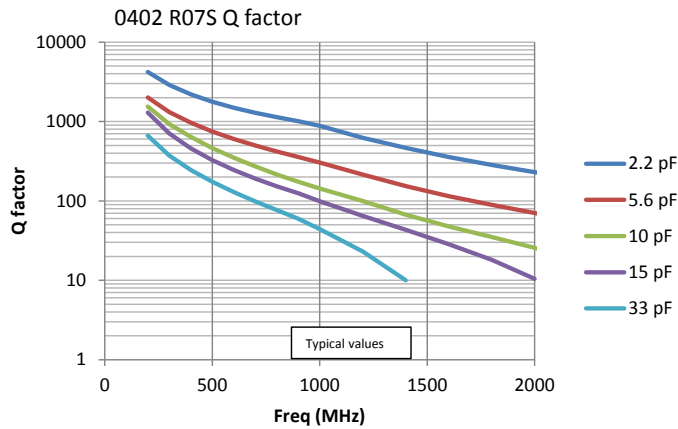


The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.

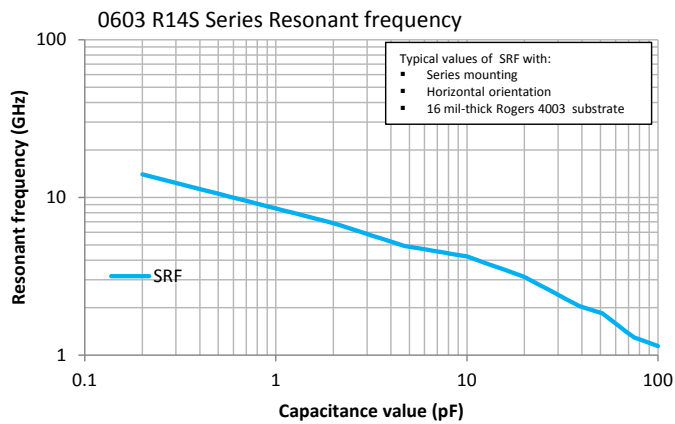
0402 R07S Equivalent Series Resistance (ESR)



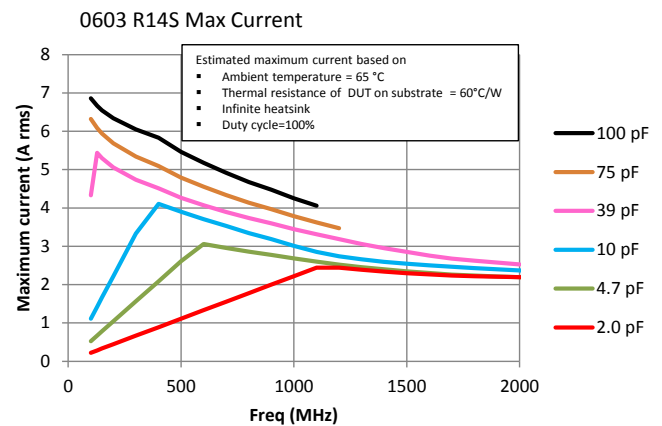
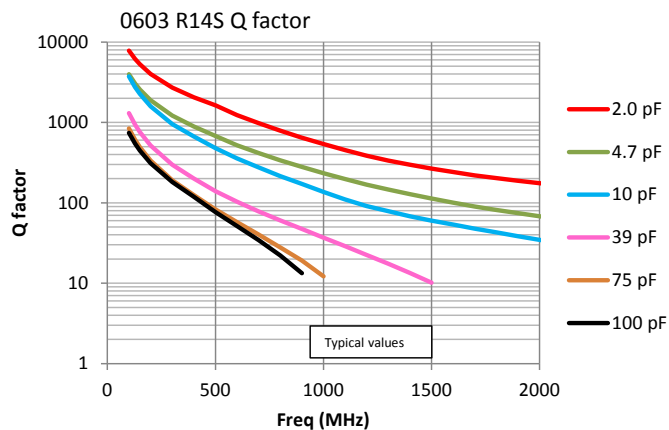
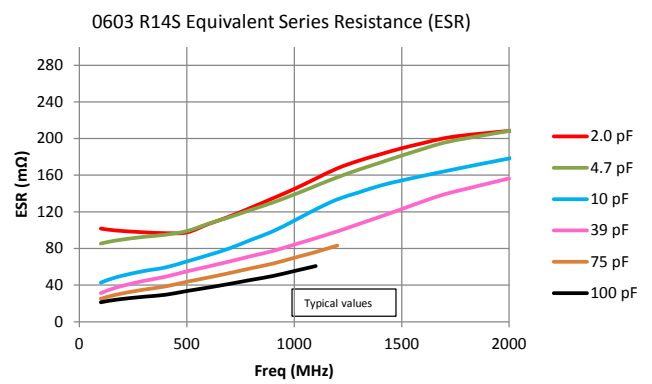
RF CHARACTERISTICS R07S SERIES

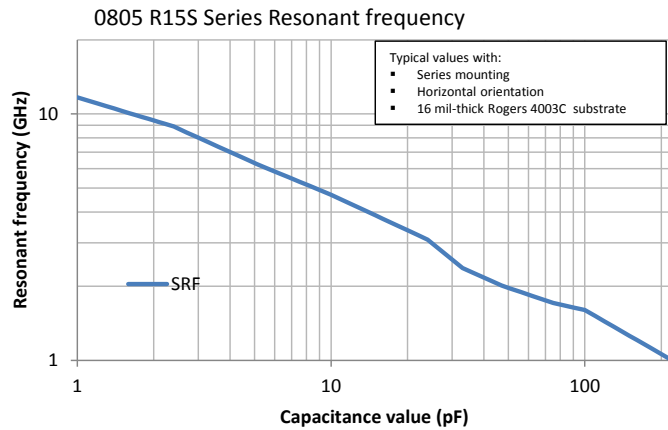


RF CHARACTERISTICS R14S SERIES

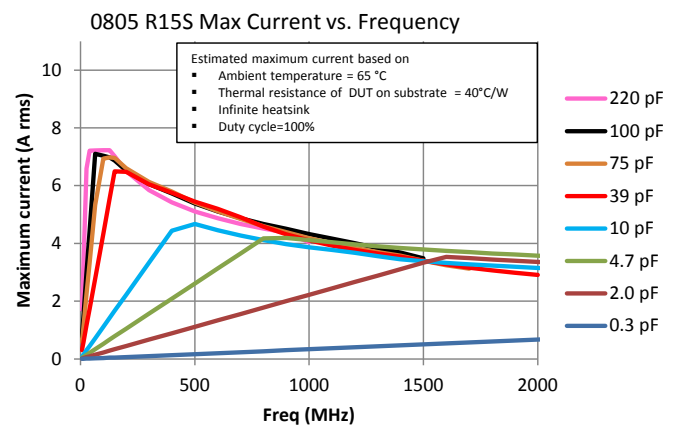
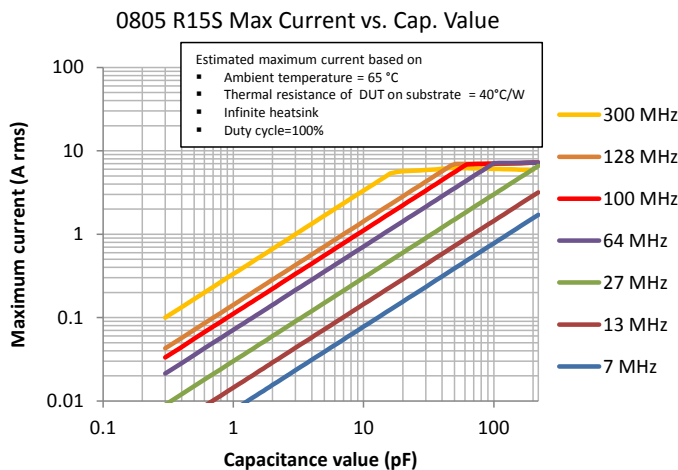
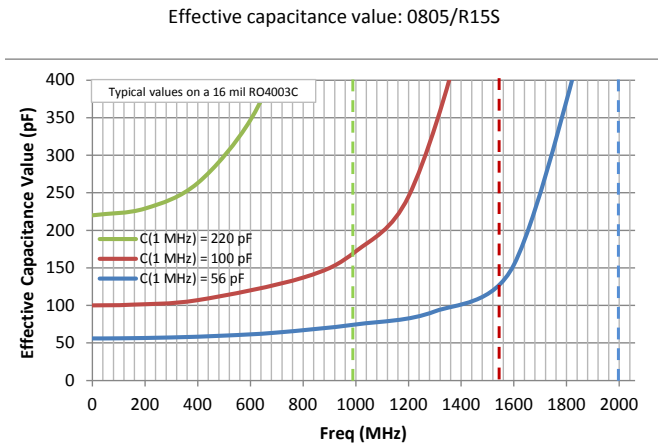
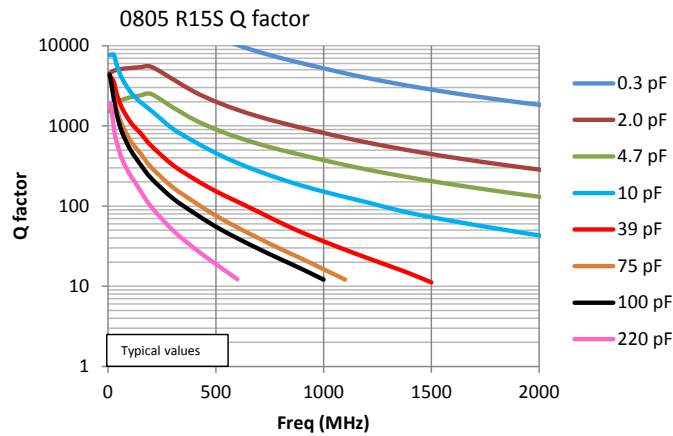
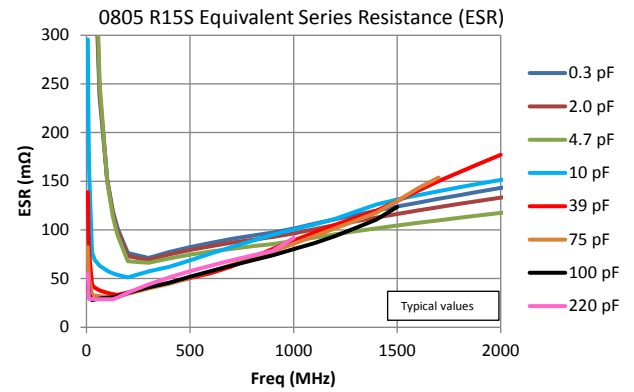


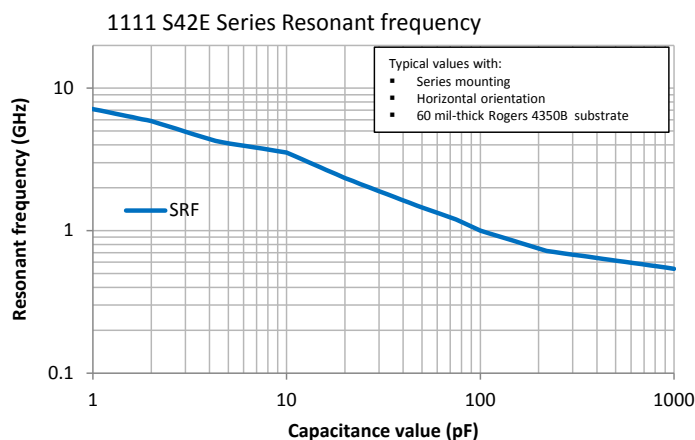
The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.



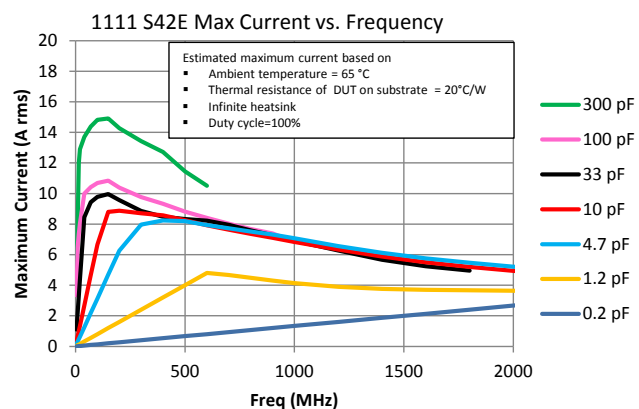
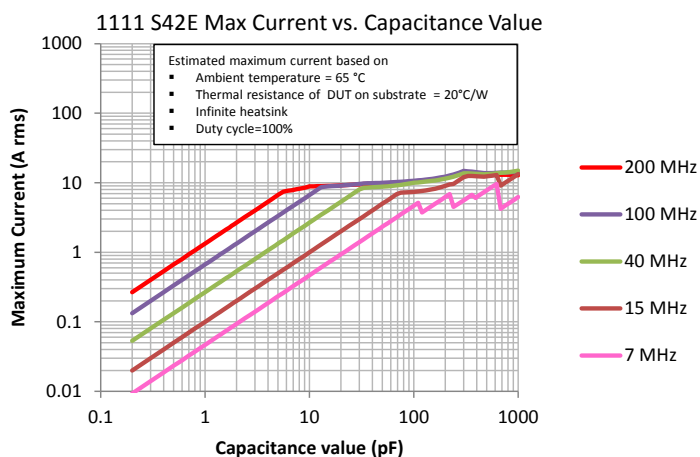
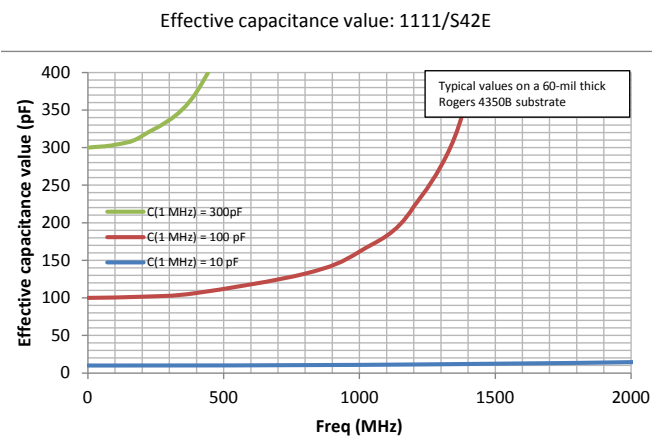
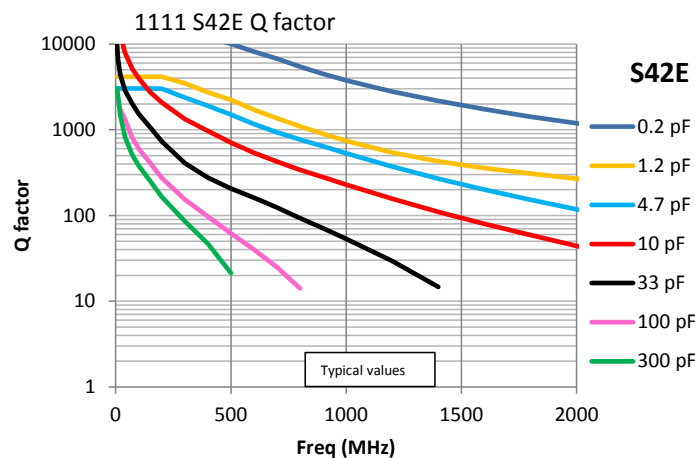
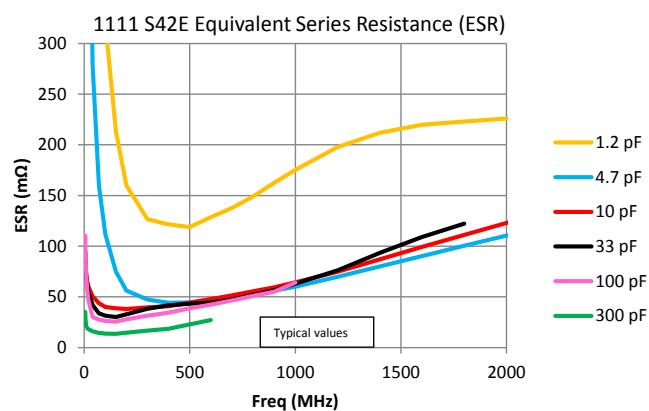


The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.

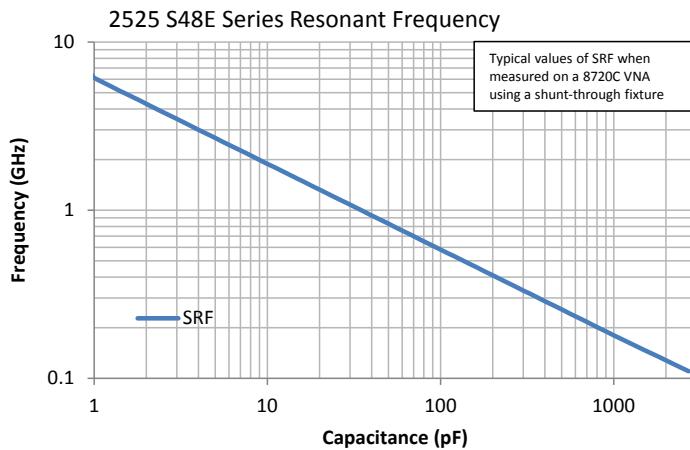




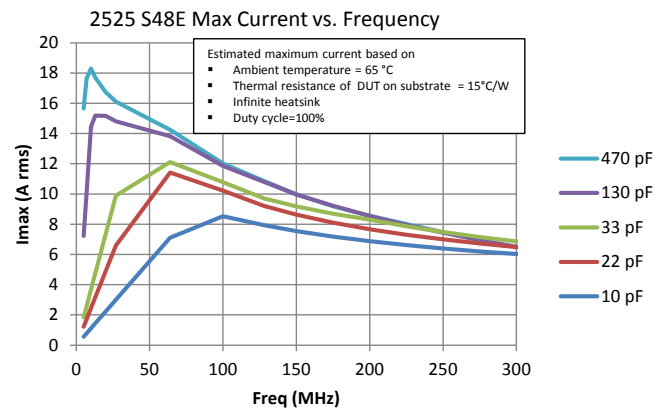
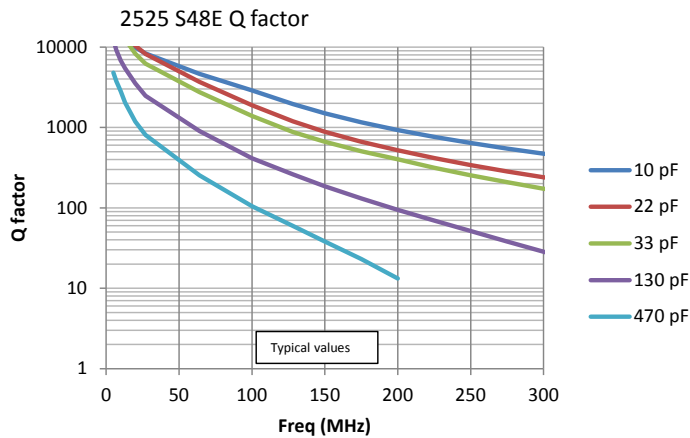
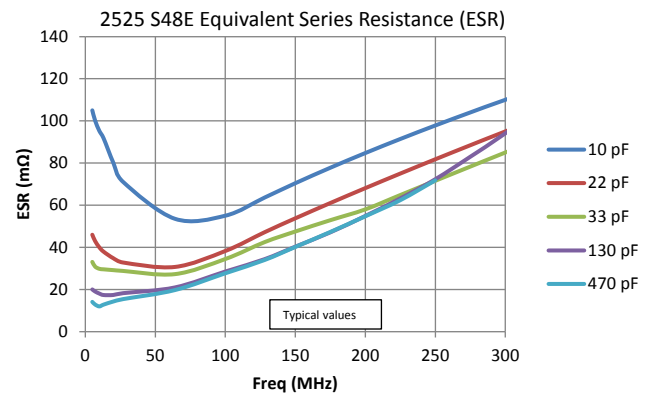
The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.

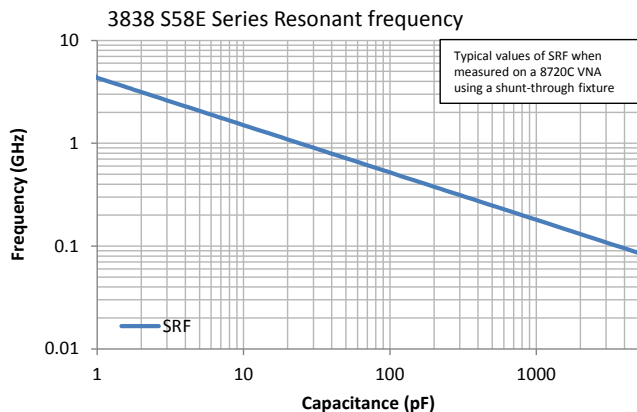


RF CHARACTERISTICS - S48E SERIES

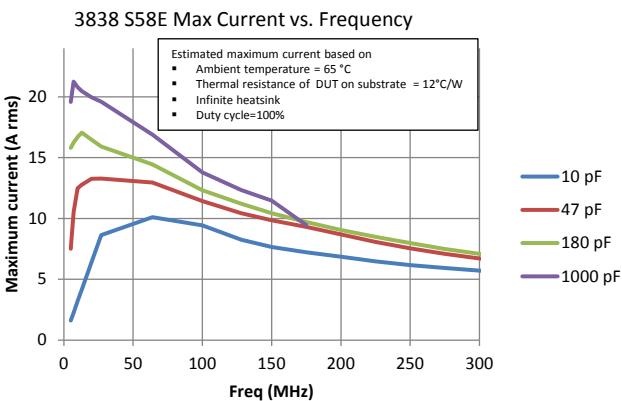
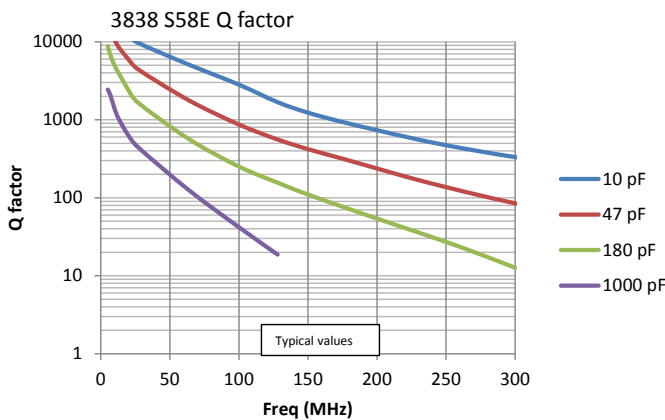
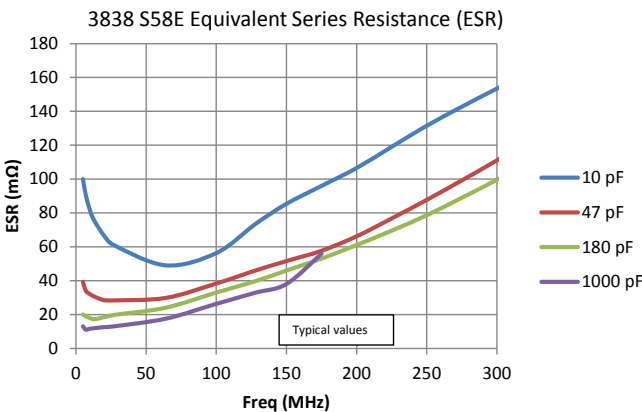


The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.





The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.



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