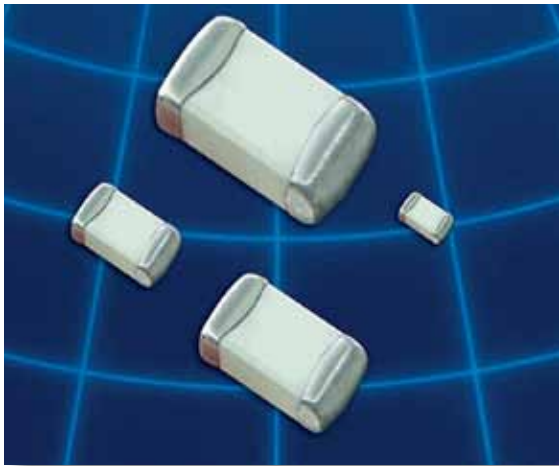


MULTI-LAYER HIGH-Q CAPACITORS



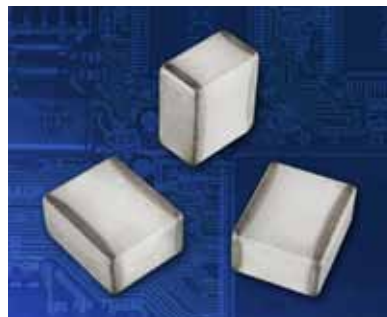
These lines of multilayer capacitors have been developed for High-Q and microwave applications.

- The **S-Series** (R03S, 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.
- The **W-Series** (R05W) capacitors offer a large capacitance value in an ultra-small 0201 package size. These exhibit a X7R temperature characteristic.
- RoHS compliance is standard for all unleaded parts (see termination options box).

HOW TO ORDER

252	S48	E	470	K	V	4	E
VOLTAGE (DC) 6R3 = 6.3 V 101 = 100 V 160 = 16 V 250 = 25 V 500 = 50 V 201 = 200 V 251 = 250 V 301 = 300 V 501 = 500 V 102 = 1000 V 152 = 1500 V 202 = 2000 V 252 = 2500 V 362 = 3600 V 502 = 5000 V 722 = 7200 V	CASE SIZE R03 (01005) 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	DIELECTRIC S = Ultra High Q NPO L = High Q NPO E = Ultra High Q NPO, High Voltage, High Power, *T = High Temp (175C) Ultra High Q NPO W = X7R	TOLERANCE A = ± 0.05 pF B = ± 0.10 pF C = ± 0.25 pF D = ± 0.50 pF 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* U = Cu/Sn (Green) C = Cu/SnPb Leaded (All Non-Mag)* 1 = Microstrip 2 = Axial Ribbon 3 = Axial Wire 4 = Radial Ribbon 5 = Radial Wire	MARKING 3 = Cap Code & Tolerance 4 = No Marking 6 = EIA Code (Marking on 0805 and larger only)	PACKAGING S = Bulk W = Waffle Pack *V = Vertically Oriented Electrodes 01005 - 0603 Y = Paper 5" Reel T = Paper 7" Reel *R = Paper 13" Reel 0805 - 3838 Z = Embossed 5" Reel E = Embossed 7" Reel *U = Embossed 13" Reel Tape specifications conform to EIA RS481

Part Number written: **252S48E470KV4E**



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

LOW ESR / HIGH-Q CAPACITOR SELECTION CHART

EIA Size		Miniature Size - Portable Electronics				RF Power Applications						
		01005 (R03S)	0201 (R05)		0402 (R07S)	0603 (R14S)	0805 (R15S)	1111 (S42E)	2525 (S48E)	3838 (S58E)		
NPO (R05L)	X7R* (R05W)											
Cap. Value	Code	Voltage										
		Voltage										
0.1	0R1											
0.2	0R2	16 V	25 V		50/200 V	250 V		500V	1000V			
0.3	0R3	16 V	25 V		50/200 V	250 V	250 V	500V	1000V			
0.4	0R4	16 V	25 V		50/200 V	250 V	250 V	500V	1000V			
0.5	0R5	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V		
0.6	0R6	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
0.7	0R7	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
0.8	0R8	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
0.9	0R9	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.0	1R0	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.1	1R1	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.2	1R2	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.3	1R3	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.4	1R4	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.5	1R5	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.6	1R6	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.7	1R7	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.8	1R8	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
1.9	1R9	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
2.0	2R0	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
2.1	2R1	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
2.2	2R2	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
2.4	2R4	16 V	25 V		50/200 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
2.7	2R7	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
3.0	3R0	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
3.3	3R3	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
3.6	3R6	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
3.9	3R9	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
4.3	4R3	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
4.7	4R7	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
5.1	5R1	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
5.6	5R6	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
6.2	6R2	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
6.8	6R8	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
7.5	7R5	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
8.2	8R2	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
9.1	9R1	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
10	100	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
11	110	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
12	120	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
13	130	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
15	150	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
16	160	16 V	25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
18	180		25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
20	200		25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
22	220		25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
24	240		25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
27	270		25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
30	300		25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V
33	330		25 V		50 V	250 V	250 V	500V	1000V	2500V	3600V	7200V

* The R05W parts, which are X7R, can only be provided with "K" or "M" tolerance.

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			Miniature Size - Portable Electronics				RF Power Applications						
			01005 (R03S)	0201 (R05)		0402 (R07S)	0603 (R14S)	0805 (R15S)	1111 (S42E)	2525 (S48E)	3838 (S58E)		
NPO (R05L)	X7R* (R05W)	Voltage											
Capacitance pF	Code	Tolerance											
36	360	F		25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
39	390			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
43	430			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
47	470			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
51	510			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
56	560			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
62	620			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
68	680			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
75	750			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
82	820			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
91	910			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
100	101			25 V			250 V	250 V	500V	1000V	2500V	3600V	7200V
110	111				16 V			250 V	300V	500V	2500V	3600V	7200V
120	121							250 V	300V	500V	2500V	3600V	7200V
130	131							250 V	300V	500V	2500V	3600V	7200V
150	151							250 V	300V	500V	2500V	3600V	7200V
160	161							250 V	300V	500V	2500V	3600V	7200V
180	181							250 V	300V	500V	2500V	3600V	7200V
200	201							250 V	300V	500V	2500V	3600V	
220	221				16 V			250 V	200V	500V	2500V	3600V	
240	241							200V	500V	2500V	3600V		
270	271							200V	500V	2500V	3600V		
300	301							200V	500V	1500V	2500V		
330	331							200V	500V	1500V	2500V		
360	361							200V	500V	1500V	2500V		
390	391							200V	500V	1500V	2500V		
430	431							200V	500V	1500V	2500V		
470	471			16 V				200V	500V	1500V	2500V		
510	511							100V	500V	1000V	2500V		
560	561							100V	500V	1000V	2500V		
620	621							100V	500V	1000V	2500V		
680	681			16 V				50V		1000V	2500V		
750	751							50V		1000V	2500V		
820	821	G		16 V				50V		1000V	2500V		
910	911								50V		1000V	1000V	
1000	102				10 V				50V		1000V	1000V	
1200	122										1000V	1000V	
1500	152										500V	1000V	
1800	182										500V	1000V	
2200	222				10 V						300V	1000V	
2700	272										300V	500V	
3300	332											500V	
3900	392											500V	
4700	472			10 V							500V		
5100	512										500V		
10000	103			6.3 V									

* The R05W parts, which are X7R, can only be provided with "K" and "M" tolerance.
Consult factory for Non-Standard values.

DIELECTRIC CHARACTERISTICS

NPO

X7R

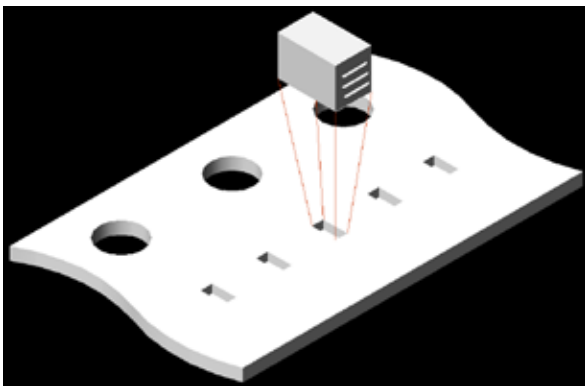
TEMPERATURE COEFFICIENT:	0 ± 30ppm /°C, -55 to 125°C	± 15%, -55 to 125°C
QUALITY FACTOR / DF:	Q >1,000 @ 1 MHz, Typical 10,000	16VDC DF ≤ 3.5% @ 1 KHz, 25°C 10VDC DF ≤ 5.0% @ 1 KHz, 25°C
INSULATION RESISTANCE:	>10 GΩ @ 25°C, WVDC; 125°C IR is 10% of 25°C rating	>500 ΩF* or 10 GΩ* @ 25°C, WVDC; 125°C IR is 10% of 25°C rating * whichever is less
DIELECTRIC STRENGTH:	2.5 X WVDC Min., 25°C, 50 mA max	2.5 X WVDC Min., 25°C, 50 mA max
TEST PARAMETERS:	1MHz ±50kHz, 1.0±0.2 VRMS, 25°C	1KHz ±50Hz, 1.0±0.2 VRMS, 25°C
AVAILABLE CAPACITANCE:	Size 01005: 0.2 - 10 pF Size 0201: 0.2 - 100 pF Size 0402: 0.2 - 33 pF Size 0603: 0.2 - 100 pF Size 0805: 0.3 - 220 pF Size 1111: 0.2 - 1000 pF Size 2525: 1.0 - 2700 pF Size 3838: 1.0 - 5100 pF	100 - 10,000 pF

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

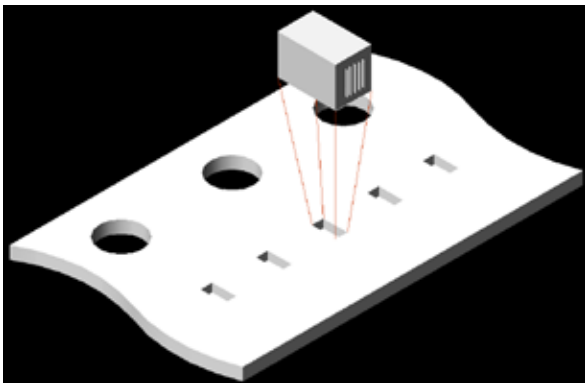
	SPECIFICATION	TEST PARAMETERS
SOLDERABILITY:	Solder coverage ≥ 90% of metalized areas No termination degradation	Preheat chip to 120°-150°C for 60 sec., dip terminals in rosin flux then dip in Sn62 solder @ 240°±5°C for 5±1 sec
RESISTANCE TO SOLDERING HEAT:	No mechanical damage Capacitance change: ±2.5% or 0.25pF Q>500 I.R. >10 G Ohms Breakdown voltage: 2.5 x WVDC	Preheat device to 80°-100°C for 60 sec. followed by 150°-180°C for 60 sec. Dip in 260°±5°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* exerted on axial leads soldered to each terminal. *0402 ≥ 2.0lbs, 0603 ≥ 2.0lbs (min.)
PCB DEFLECTION:	No mechanical damage. Capacitance change: 2% or 0.5pF Max	Glass epoxy PCB: 0.5 mm deflection
LIFE TEST:	No mechanical damage Capacitance change: ±3.0% or 0.3 pF Q>500 I.R. >1 G Ohms Breakdown voltage: 2.5 x WVDC	Applied voltage: 200% rated voltage, 50 mA max. Temperature: 125°±3°C Test time: 1000+48-0 hours
THERMAL CYCLE:	No mechanical damage. Capacitance change: ±2.5% or 0.25pF Q>2000 I.R. >10 G Ohms Breakdown voltage: 2.5 x WVDC	5 cycles of: 30±3 minutes @ -55°+0/-3°C, 2-3 min. @ 25°C, 30±3 min. @ +125°+3/-0°C, 2-3 min. @ 25°C Measure after 24±2 hour cooling period
HUMIDITY, STEADY STATE:	No mechanical damage. Capacitance change: ±5.0% or 0.50pF max. Q>300 I.R. ≥ 1 G-Ohm Breakdown voltage: 2.5 x WVDC	Relative humidity: 90-95% Temperature: 40°±2°C Test time: 500 +12/-0 Hours Measure after 24±2 hour cooling period
HUMIDITY, LOW VOLTAGE:	No mechanical damage. Capacitance change: ±5.0% or 0.50pF max. Q>300 I.R. = 1 G-Ohm min. Breakdown voltage: 2.5 x WVDC	Applied voltage: 1.5 VDC, 50 mA max. Relative humidity: 85±2% Temperature: 40°±2°C Test time: 240 +12/-0 Hours Measure after 24±2 hour cooling period
VIBRATION:	No mechanical damage. Capacitance change: ±2.5% or 0.25pF Q>1000 I.R. ≥ 10 G-Ohm Breakdown voltage: 2.5 x WVDC	Cycle performed for 2 hours in each of three perpendicular directions Frequency range 10Hz to 55 Hz to 10 Hz traversed in 1 minute. Harmonic motion amplitude: 1.5mm

MECHANICAL CHARACTERISTICS

Size	Units	Length	Width	Thickness	End Band
01005	In	.016 ±.001	.008 ±.001	.008 ±.001	.006 Max.
(0402)	mm	(0.40 ±0.03)	(0.20 ±0.03)	(0.20 ±0.03)	(0.15 Max.)
0201	In	.024 ±.001	.012 ±.001	.012 ±.001	.008 Max.
(0603)	mm	(0.60 ±0.03)	(0.30 ±0.03)	(0.30 ±0.03)	(0.20 Max.)
0402	In	.040 ±.004	.020 ±.004	.020 ±.004	.010 ±.006
(1005)	mm	(1.02 ±0.1)	(0.51 ±0.1)	(0.51 ±0.1)	(0.25 ±.15)
0603	In	.062 ±.006	.032 ±.006	.030 +.005/- .003	.014 ±.006
(1608)	mm	(1.57 ±0.15)	(0.81 ±0.15)	(0.76 +.13-.08)	(0.35 ±.15)
0805	In	.080 ±.008	.050 ±.008	.040 ±.006	.020 ±.010
(2012)	mm	(2.03 ±0.20)	(1.27 ±0.20)	(1.02 ±.15)	(0.50 ±.25)



Horizontal Electrode Orientation



Vertical Electrode Orientation

E-SERIES TERMINATIONS AND LEADS

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:

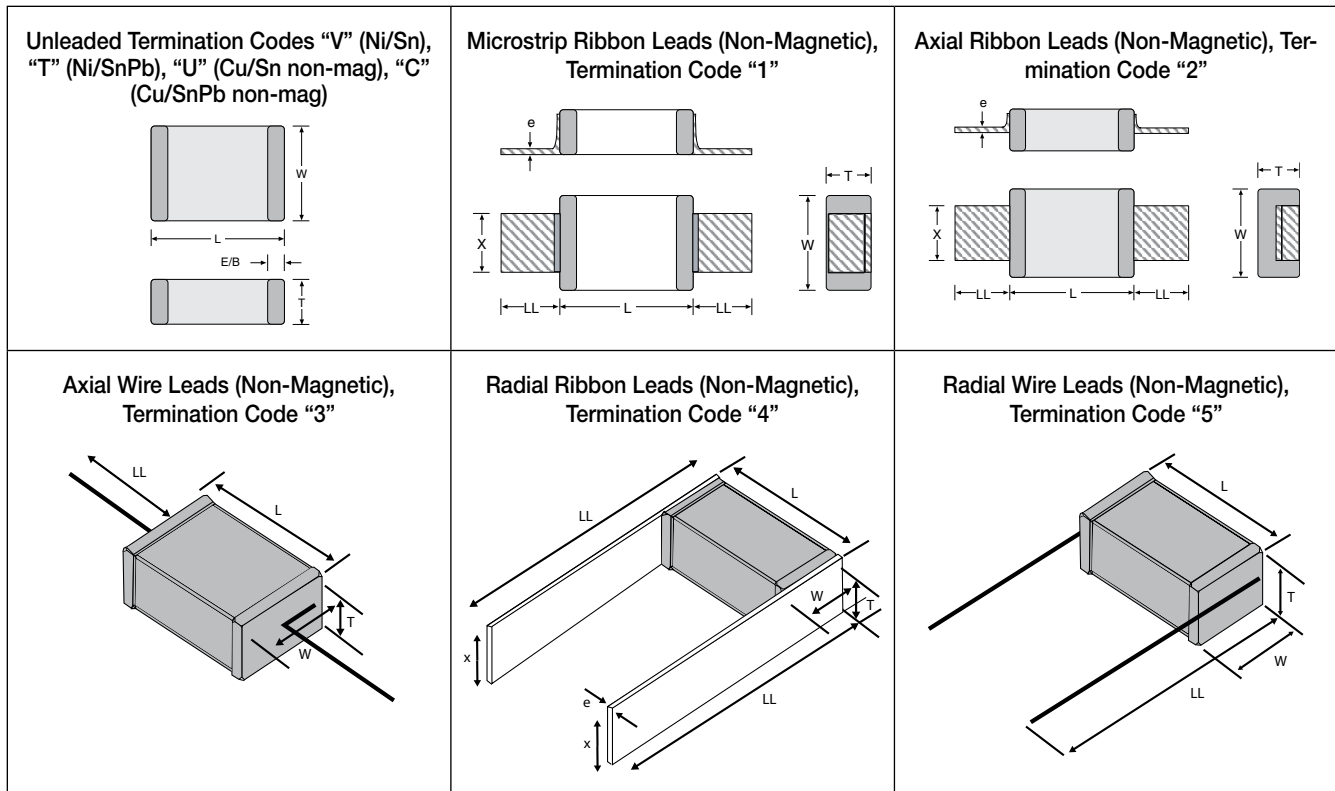
>1000 ΩF or >10 GΩ,
whichever is less
@ 25°C WVDC

TEMPERATURE COEFFICIENT:

0 ± 30ppm /°C, -55 to 125°C

DISSIPATION FACTOR (TYP):

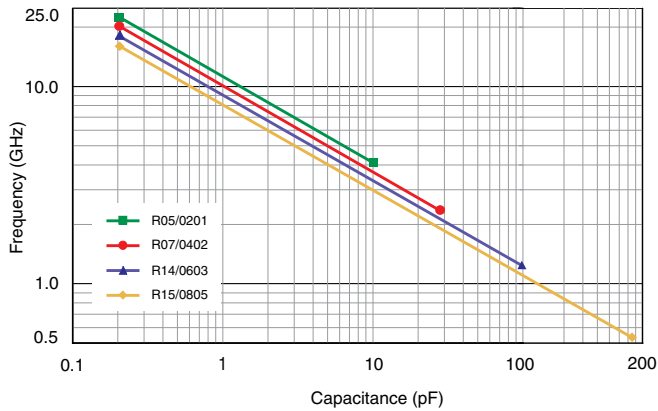
< 0.05% @ 1 MHz



Lead	Size	Units	L	Tol	W	Tol	T (max)	E/B (typ)	LL(min)	X	Tol	e	Tol
1	S42E	In	0.135	+/- .015	0.110	+/- .020	0.120	0.015	0.25	0.093	+/-0.005	0.004	+/- 0.001
		mm	3.43	+/- 0.38	2.79	+/- 0.51	3.05	0.38	6.35	2.36	+/- 0.13	0.102	+/- 0.025
	S48E	In	0.245	+/- 0.025	0.250	+/- 0.015	0.160	0.025	0.50	0.240	+/- 0.005	0.004	+/- 0.001
		mm	6.22	+/- 0.64	6.35	+/- 0.38	3.81	0.63	12.7	6.10	+/- 0.13	0.102	+/- 0.025
	S58E	In	0.38	+0.035 / - 0.010	0.38	+/- 0.010	0.170	0.04 MAX.	0.750	0.35	+/- 0.010	0.010	+/- 0.005
		mm	9.65	+0.89 / -0.25	9.65	+/- 0.25	4.32	1.02 MAX.	19.05	8.89	+/- 0.25	0.25	+/- 0.13
2	S42E	In	0.135	+/- .015	0.110	+/- .020	0.102	0.015	0.25	0.093	+/-0.005	0.004	+/- 0.001
		mm	3.43	+/- 0.38	2.79	+/- 0.51	2.59	0.38	6.35	2.36	+/- 0.13	0.102	+/- 0.025
	S48E	In	0.245	+/- 0.025	0.250	+/- 0.015	0.160	0.025	0.50	0.240	+/- 0.005	0.004	+/- 0.001
		mm	6.22	+/- 0.64	6.35	+/- 0.38	3.81	0.63	12.7	6.10	+/- 0.13	0.102	+/- 0.025
	S58E	In	0.38	+0.035 / - 0.010	0.38	+/- 0.010	0.170	0.04 MAX.	0.750	0.35	+/- 0.010	0.010	+/- 0.005
		mm	9.65	+0.89 / -0.25	9.65	+/- 0.25	4.32	1.02 MAX.	19.05	8.89	+/- 0.25	0.25	+/- 0.13
3	S42E S48E S58E	In	0.145	+/- .020	0.110	+/- .015	0.102		0.50	#26 AWG, .016 (.406) dia. nominal			
		mm	3.68	+/- 0.51	2.79	+/- 0.38	2.59		12.70				
4	S42E S48E S58E	In	0.135	+/- .015	0.110	+/- .015	0.102		0.25	0.093	+/-0.005	0.004	+/- 0.001
		mm	3.43	+/- 0.38	2.79	+/- 0.38	2.59		6.35	2.36	+/- 0.13	0.102	+/- 0.025
5	S42E S48E S58E	In	0.145	+/- .020	0.110	+/- .015	0.102		0.50	#26 AWG, .016 (.406) dia. nominal			
		mm	3.68	+/- 0.51	2.79	+/- 0.38	2.59		12.70				

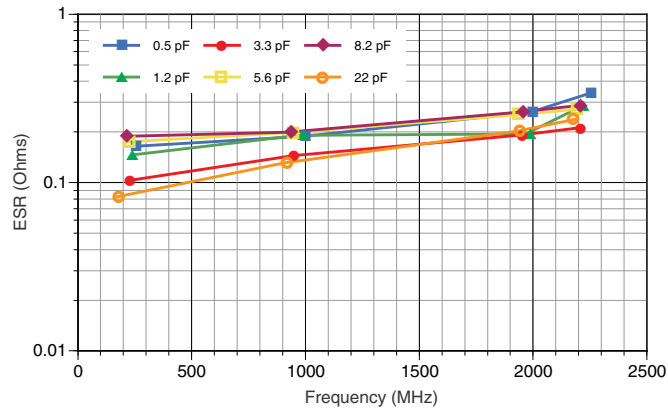
SERIES RESONANCE CHART

Typical Series Resonant Frequency (Series Mounted)

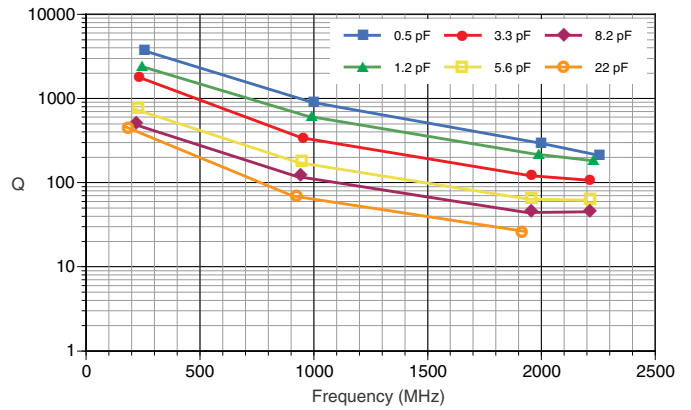


RF CHARACTERISTICS - L-SERIES

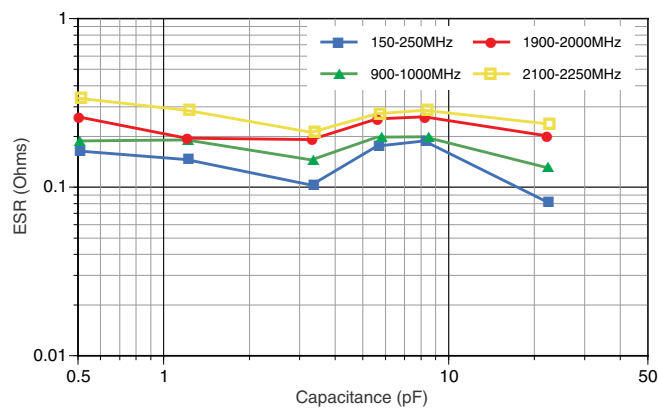
ESR vs Frequency: 0201/R05L



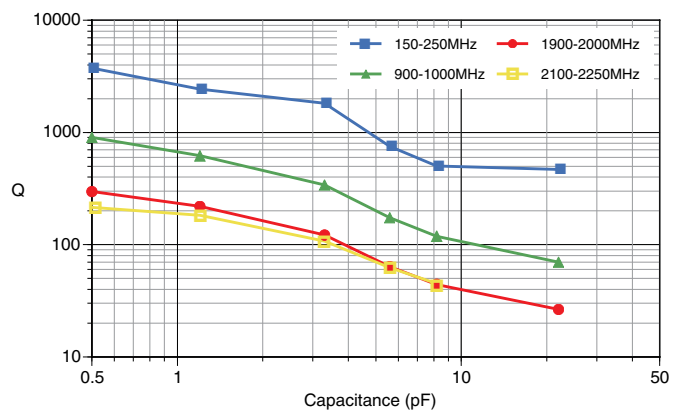
Q vs Frequency: 0201/R05L



ESR vs Capacitance: 0201/R05L

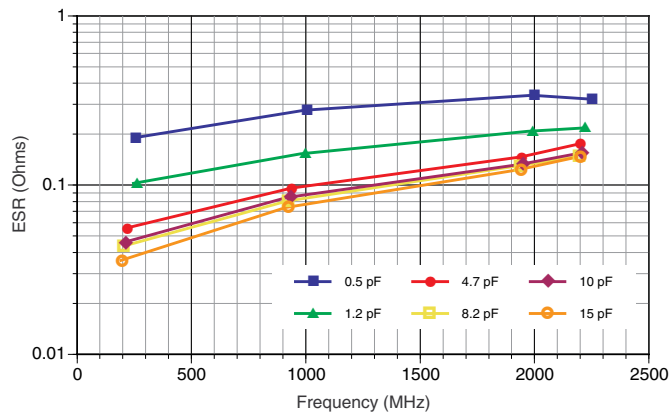


Q vs Capacitance: 0201/R05L

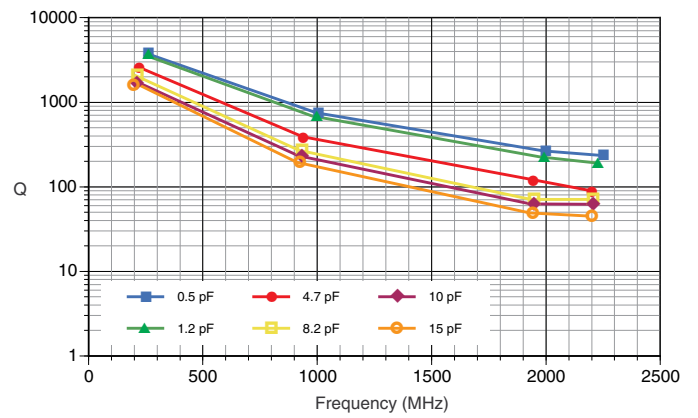


S-SERIES RF CHARACTERISTICS VERSUS FREQUENCY

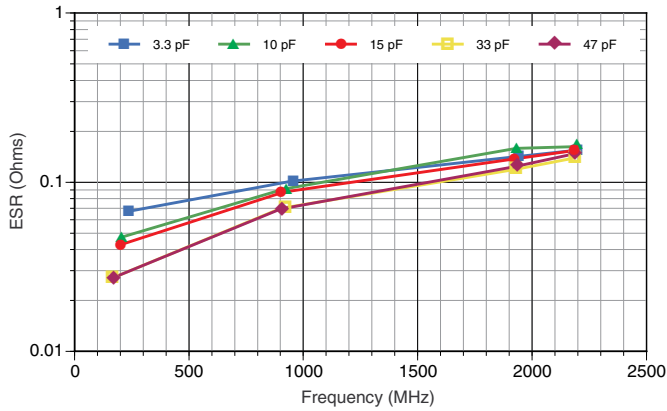
Equivalent Series Resistance: 0402/R07S



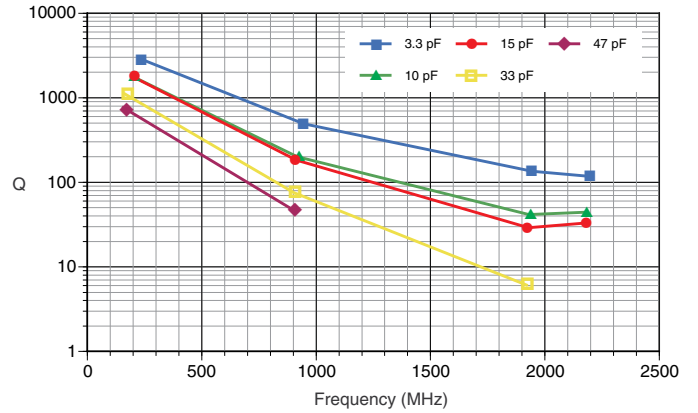
Q Factor: 0402/R07S



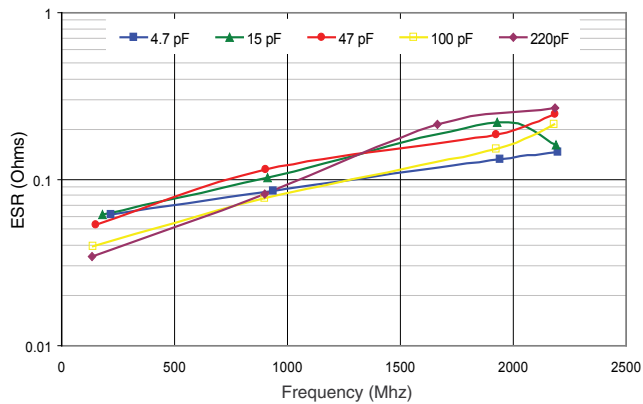
Equivalent Series Resistance: 0603/R14S



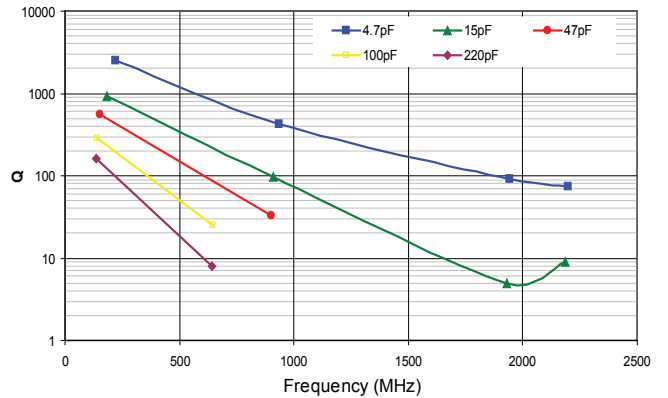
Q Factor: 0603/R14S



Equivalent Series Resistance: 0805/R15S



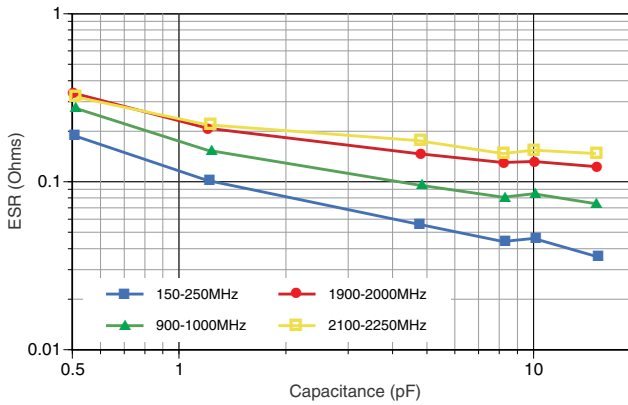
Q Factor: 0805/R15S



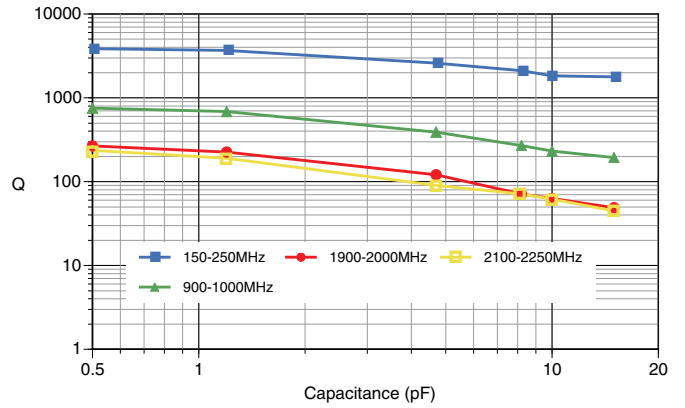
Measurements performed on a Boonton 34A Resonant Coaxial Line and represent typical capacitor performance.

S-SERIES RF CHARACTERISTICS VERSUS CAPACITANCE

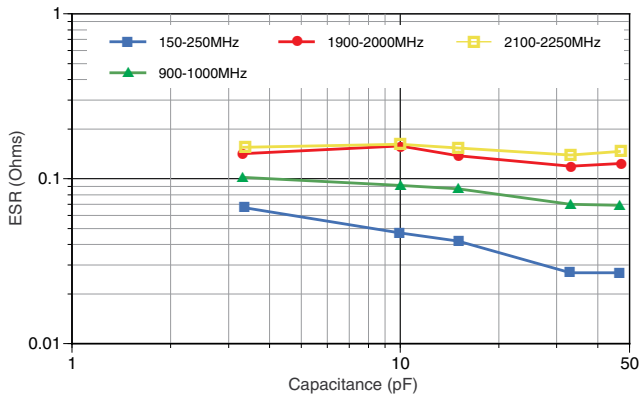
Equivalent Series Resistance: 0402/R07S



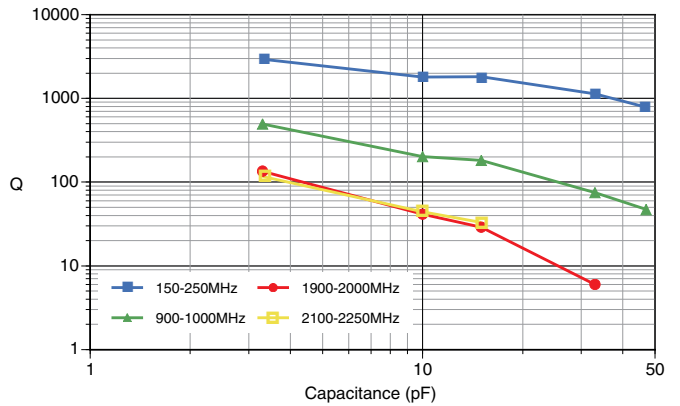
Q Factor: 0402/R07S



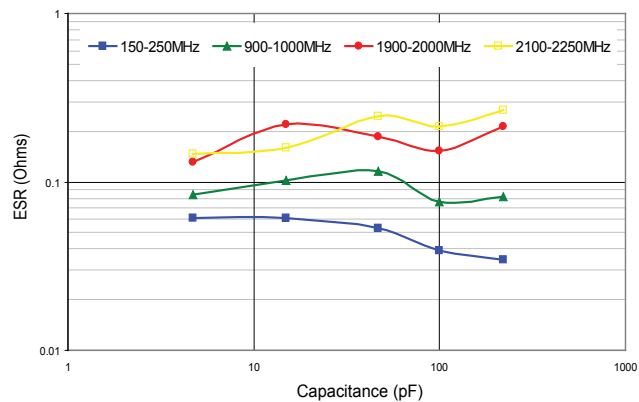
Equivalent Series Resistance: 0603/R14S



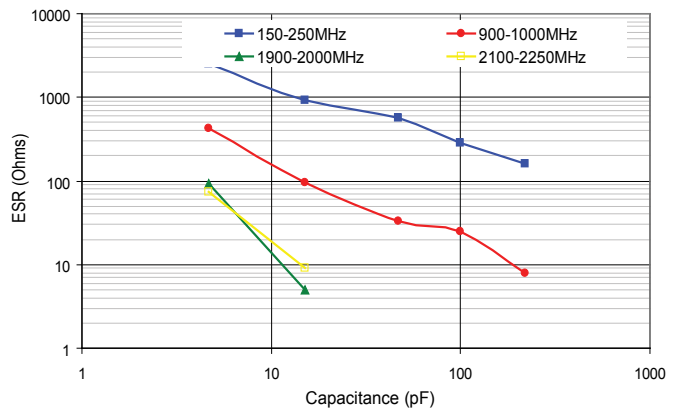
Q Factor: 0603/R14S



Equivalent Series Resistance: 0805/R15S



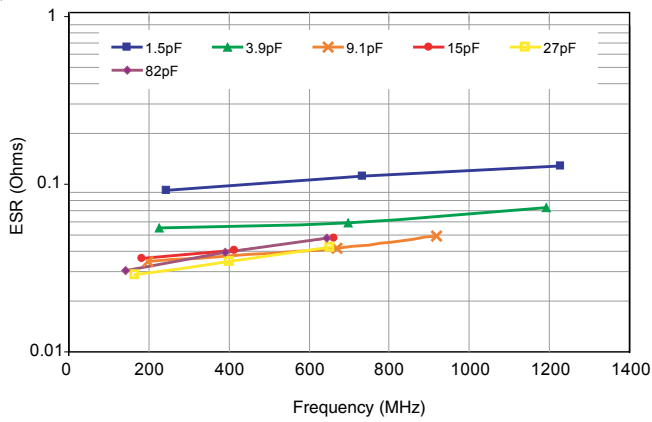
Q Factor: 0805/R15S



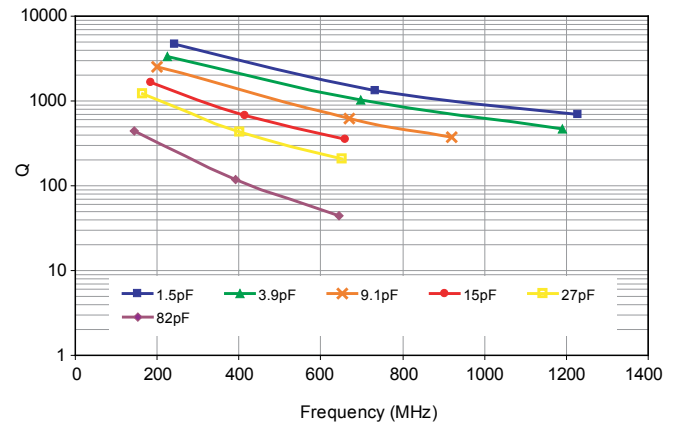
Measurements performed on a Boonton 34A Resonant Coaxial Line and represent typical capacitor performance.

S42E SERIES RF CHARACTERISTICS VERSUS FREQUENCY

Equivalent Series Resistance: 1111/S42E

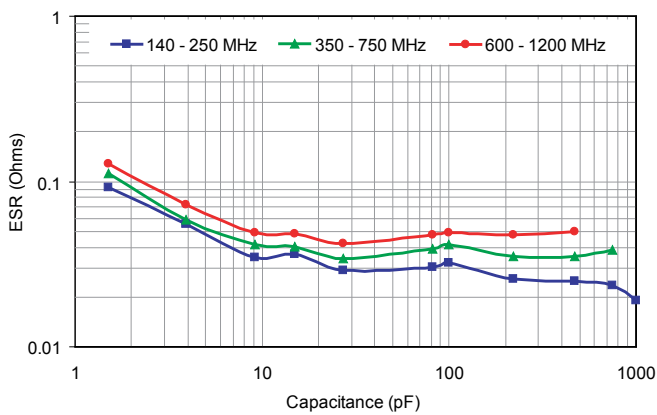


Q Factor: 1111/S42E

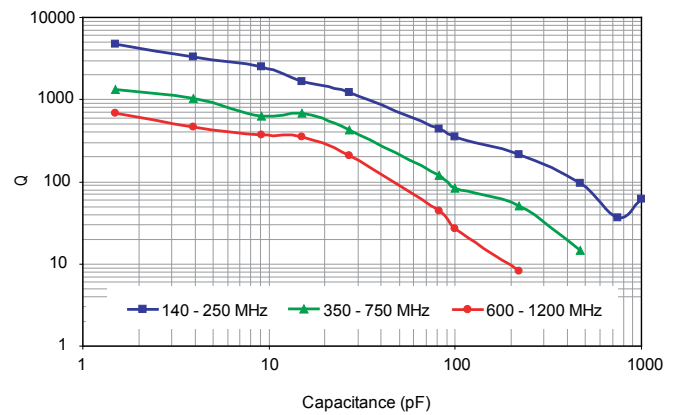


S42E SERIES RF CHARACTERISTICS VERSUS CAPACITANCE

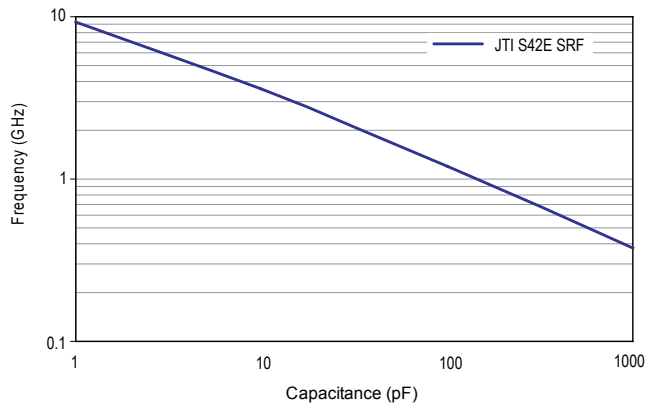
S42E Equivalent Series Resistance vs Capacitance, Typical



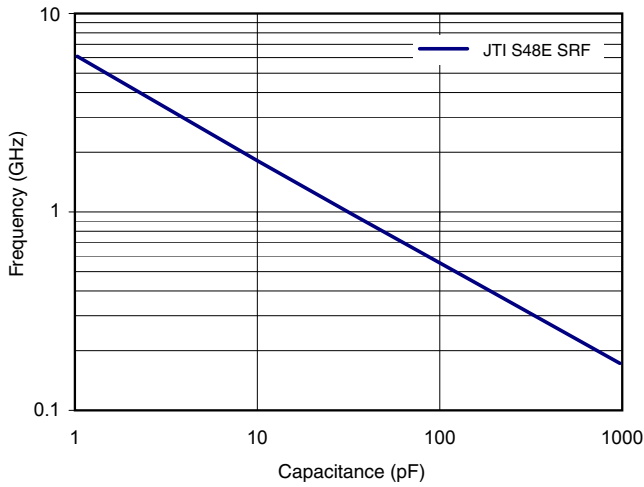
S42E Q vs. Capacitance, Typical



S42E SRF (Series Mount), Typical

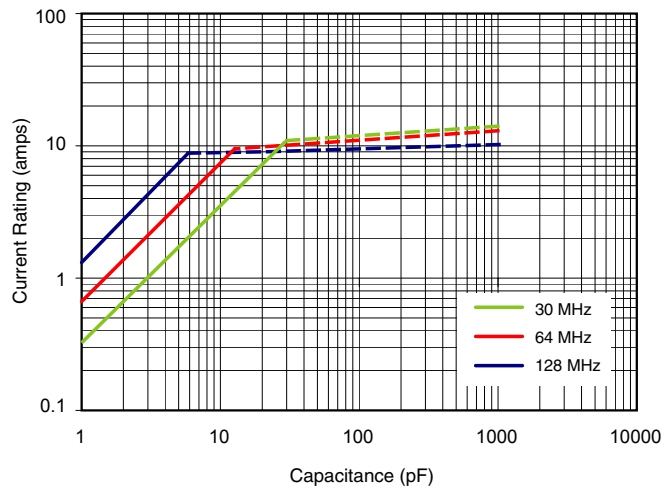


SRF (Shunt Mount), S48E, Typical (Preliminary)



As measured on a 8720C VNA, using a Shunt-Through fixture, and using the S11 magnitude dip to determine the SRF

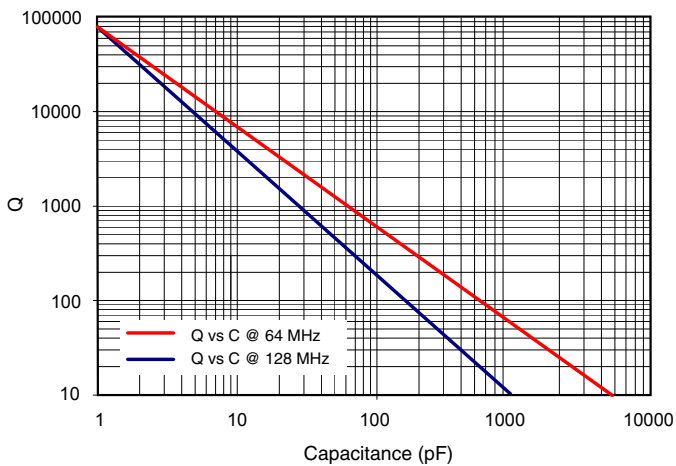
Current Rating vs. Capacitance, S48E, Typical (Preliminary)



Solid traces show voltage limited current (Vrms)

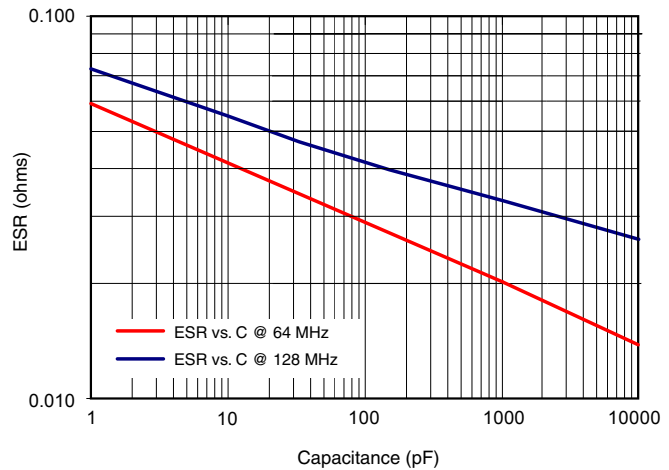
Dotted traces show power dissipation limited current (Based on 4 Watts Power Dissipation, and 125 degrees C case temp.)

S48E Q vs. Capacitance, Typical (Preliminary)



As measured on a 4287A LCR meter, using a 16092A fixture

S48E ESR vs. Capacitance, Typical (Preliminary)



As measured on a 4287A LCR meter, using a 16092A fixture

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