

# 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

<b>252</b>	<b>S48</b>	<b>E</b>	<b>470</b>	<b>K</b>	<b>V</b>	<b>4</b>	<b>E</b>	<b>-AEC</b>
<p><b>WVDC<sup>2</sup></b>                  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</p>	<p><b>CASE SIZE</b>                  R05 (0201)                  R07 (0402)                  R14 (0603)                  R15 (0805)                  S42 (1111)                  S48 (2525)                  S58 (3838)</p>	<p><b>CAPACITANCE (pF)</b>                  1st two digits are significant; third digit denotes number of zeros, R = decimal.                  100 = 10 pF                  101 = 100 pF</p>	<p><b>TOLERANCE</b>                  &lt; 10pF                  A = ± 0.05 pF                  B = ± 0.10 pF                  C = ± 0.25 pF                  D = ± 0.50 pF</p> <p>≥ 10pF                  F = ±1 %                  G = ±2%                  J = ±5%                  K = ± 10%</p> <p>For tolerance availability, see chart.</p>	<p><b>TERMINATION</b>                  Nickel Barrier                  V = Ni/Sn (Green)                  T = Ni/SnPb                  G = Ni/Au (Green)                  Non-Mag<sup>1</sup>                  U = Cu/Sn (Green)                  C = Cu/SnPb                  Leaded (All Non-Mag)<sup>1</sup>                  1 = Microstrip                  2 = Axial Ribbon                  3 = Axial Wire                  4 = Radial Ribbon                  5 = Radial Wire</p>	<p><b>PACKAGING</b>                  S = Bulk                  W = Waffle Pack                  0201 - 0603                  Y = Paper 5" Reel                  T = Paper 7" Reel                  R<sup>1</sup> = Paper 13" Reel                  J<sup>1</sup> = Paper 5" Reel - Horizontally Oriented Electrodes                  N<sup>1</sup> = Paper 5" Reel - Vertically Oriented Electrodes                  L<sup>1</sup> = Paper 7" Reel - Horizontally Oriented Electrodes                  V<sup>1</sup> = Paper 7" Reel - Vertically Oriented Electrodes                  0805 - 3838                  Z = Embossed 5" Reel                  E = Embossed 7" Reel                  U<sup>1</sup> = Embossed 13" Reel                  M<sup>1</sup> = Embossed 5" Reel - Horizontally Oriented Electrodes                  Q<sup>1</sup> = Embossed 5" Reel - Vertically Oriented Electrodes                  G<sup>1</sup> = Embossed 7" Reel - Horizontally Oriented Electrodes                  P<sup>1</sup> = Embossed 7" Reel - Vertically Oriented Electrodes                  Tape specifications conform to EIA RS481</p>	<p><b>QUALIFICATION</b>                  AEC-Q200 qualification <sup>3</sup> (optional)</p>		
<p>Part Number written:                  252S48E470KV4E</p>		<p><b>DIELECTRIC</b>                  S = Ultra High Q NP0                  L = High Q NP0                  E = Ultra High Q NP0, High Voltage, High Power                  G = Fully Oriented, Ultra High-Q NP0</p>	<p><b>MARKING</b>                  3 = Cap Code &amp; Tolerance                  4 = No Marking                  6 = EIA Code                  (Marking option is only available on 0805 and larger case sizes)</p>					



<sup>1</sup> - Not available for all MLCC - Call factory for info.

<sup>2</sup> - WVDC - Working Voltage DC.

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

## LOW ESR / HIGH-Q CAPACITOR SELECTION CHART

EIA Size		RF Power Applications									
		0201 (R05)	0402 (R07S)	0603 (R14S)	0805 (R15S)	0805 (R15L)	1111 (S42E)	2525 (S48E)	3838 (S58E)		
Cap. Value		NPO (R05L)									
Capacitance pF	Code										
0.1	0R1	25/50 V	50/250 V	250 V							
0.2	0R2	25/50 V	50/250 V	250 V			500V	1500V			
0.3	0R3	25/50 V	50/250 V	250 V	250 V		500V	1500V			
0.4	0R4	25/50 V	50/250 V	250 V	250 V		500V	1500V			
0.5	0R5	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V		
0.6	0R6	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
0.7	0R7	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
0.8	0R8	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
0.9	0R9	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.0	1R0	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.1	1R1	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.2	1R2	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.3	1R3	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.4	1R4	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.5	1R5	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.6	1R6	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.7	1R7	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.8	1R8	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
1.9	1R9	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
2.0	2R0	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
2.1	2R1	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
2.2	2R2	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
2.4	2R4	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
2.7	2R7	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
3.0	3R0	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
3.3	3R3	25/50 V	50/250 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
3.6	3R6	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
3.9	3R9	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
4.3	4R3	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
4.7	4R7	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
5.1	5R1	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
5.6	5R6	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
6.2	6R2	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
6.8	6R8	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
7.5	7R5	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
8.2	8R2	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
9.1	9R1	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
10	100	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
11	110	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
12	120	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
13	130	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
15	150	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
16	160	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
18	180	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
20	200	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
22	220	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
24	240	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
27	270	25/50 V	50/200 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
30	300	25/50 V	50 V	250 V	250 V		500V	1500V	3600V	3600V	7200V
33	330	25/50 V	50 V	250 V	250 V		500V	1500V	3600V	3600V	7200V

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) NPO (R05L)	0402 (R07S)	0603 (R14S)	0805 (R15S)	0805 (R15L)	1111 (S42E)	2525 (S48E)	3838 (S58E)		
Capacitance pF	Code	Tolerance										
36	360	F	25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
39	390		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
43	430		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
47	470		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
51	510		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
56	560		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
62	620		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
68	680		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
75	750		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
82	820		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
91	910		25/50 V		250 V	250 V		500V	1500V	3600V	3600V	7200V
100	101		25/50 V		250 V	250 V		500V	1500V	3600V	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						500V	200V	600V	2500V	3600V	
270	271						500V	200V	600V	2500V	3600V	
300	301						500V	200V	600V	1500V	3600V	
330	331						500V	200V	600V	1500V	3600V	
360	361						500V	200V	600V	1500V	3600V	
390	391						500V	200V	500V	1500V	3600V	
430	431						500V	200V	500V	1500V	2500V	
470	471						500V	200V	500V	1500V	2500V	
510	511						100V	200V	500V	1000V	2500V	
560	561						100V	200V	500V	1000V	2500V	
620	621						100V	200V	500V	1000V	2500V	
680	681						50V	200V		1000V	2500V	
750	751						50V	200V		1000V	2500V	
820	821	G					50V	200V		1000V	2500V	
910	911						50V	200V		1000V	1000V	
1000	102						50V	200V		1000V	1000V	
1200	122						50V			1000V	1000V	
1500	152						50V			500V	1000V	
1800	182		K					50V			500V	1000V
2200	222							50V			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 ± 30ppm /°C, -55 to 150°C	
QUALITY FACTOR / DF:	Q > 1,000 @ 1KHz (C > 1,000pF), Typical 10,000 (C < 1,000 pF)	
INSULATION RESISTANCE:	> 100 GΩ @ 25°C, WVDC <sup>1</sup> ; 125°C IR is 10% of 25°C rating	
TEST PARAMETERS:	1MHz ± 50kHz, 1.0 ± 0.2VRMS for capacitance values ≤ 1,000pF 1kHz ± 50Hz, 1.0 ± 0.2VRMS for capacitance values > 1,000pF	
DIELECTRIC STRENGTH:	500 V ≤ 2.5 X WVDC <sup>1</sup> Min., 25°C, 50 mA max 1000 V ≤ 1.5 X WVDC <sup>1</sup> Min., 25°C, 50 mA max > 1500 = 1 X WVDC <sup>1</sup> Min., 25°C, 50 mA max	
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 ≥ 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 DWV <sup>2</sup> : 2.5 x WVDC <sup>1</sup>	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 <sup>3</sup> exerted on axial leads soldered to each terminal.
PCB DEFLECTION:	No mechanical damage. Capacitance change: 5% or 0.5pF whichever is greater.	Glass epoxy PCB: 2 mm deflection
LIFE TEST:	MIL-STD-202, Method 108I No mechanical damage Capacitance change: ±3.0% or 0.3 pF Q > 500 I.R. > 1 G Ohms DWV <sup>2</sup> : 2.5 x WVDC <sup>1</sup>	Applied voltage: 200% of WVDC <sup>1</sup> for capacitors rated at 500 volts DC or less. 100% of WVDC <sup>1</sup> for capacitors rated at 1250 volts DC or less. 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 DWV <sup>2</sup> : 2.5 x WVDC <sup>1</sup>	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 DWV <sup>2</sup> : 2.5 x WVDC <sup>1</sup>	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. DWV <sup>2</sup> : 2.5 x WVDC <sup>1</sup>	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 DWV <sup>2</sup> : 2.5 x WVDC <sup>1</sup>	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

<sup>1</sup> - WVDC - Working Voltage DC.

<sup>2</sup> - DWV - Dielectric Withstanding Voltage.

<sup>3</sup> - 0402 ≥ 2.0lbs, 0603 ≥ 4.0lbs (min).

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/-0.03	.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, 0805, 1111
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 +150°C
INSULATION RESISTANCE:	>10G Ω @ 25°C
TEMPERATURE COEFFICIENT:	0 ± 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				

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 Q factor



0201 R05L Max Current



0402 R07S Series Resonant frequency



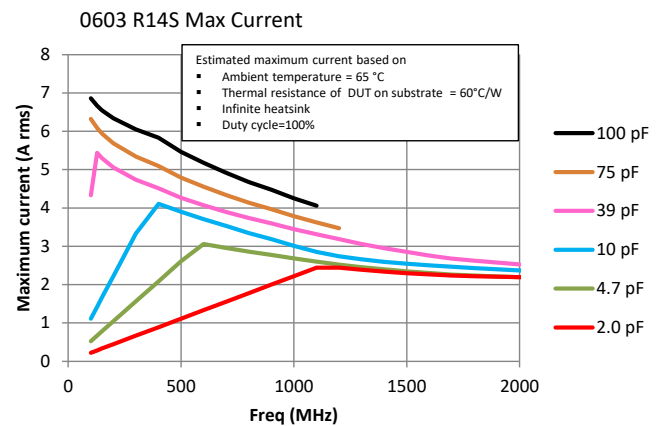
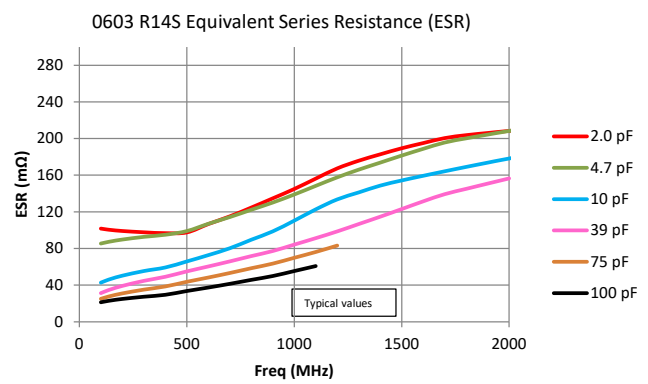
The Series Resonant Frequency is highly dependent on the substrate, pad dimensions, and measurement method. The above chart is for reference only.

0402 R07S Equivalent Series Resistance (ESR)





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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# RF CHARACTERISTICS - 3838 S58E SERIES



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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.