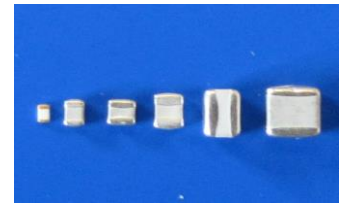
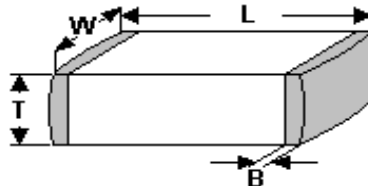


# AH SERIES HIGH Q P90 ± 20 PPM/°C MULTILAYER CAPACITORS



Dielectric Information				
Dielectric Code	Temperature Coefficient -55°C to +125°C (ppm/°C) Max	DF @ 1 MHz (% Max)	Insulation Resistance (MΩ)	
			@+25°C	@+125°C
AH	P90 ± 20	0.05	>10 <sup>6</sup>	>10 <sup>5</sup>



### Case Size Definitions

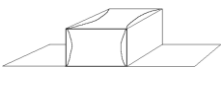
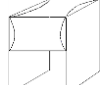
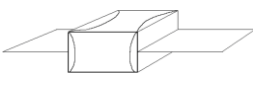
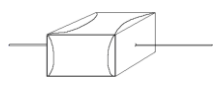
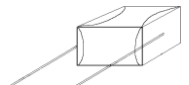
Available Case Sizes	Available Terminations	Width Range (W)	Length Range (L)	Thickness (Max) (T)	Gap Min. (Between Bands)	Band Min (Plated) (B)	Band Max (Plated) (B)
11	TUSZEPQYMWVR	0.056 ± 0.020	0.059 ± 0.018	0.06	0.012	0.006	0.033
	T		0.064 ± 0.023			N/A	N/A
17	TUSZEPQYMWVR	0.112 ± 0.026	0.116 ± 0.028	0.12	0.032	0.006	0.054
	T	0.115 ± 0.029	0.125 ± 0.035			N/A	N/A
18	UZEWV	0.118 ± 0.032	0.125 ± 0.035	0.12	0.036	0.006	0.054
22	USZEPQYMWVR	0.252 ± 0.040	0.226 ± 0.038	0.156	0.104	N/A	N/A
40	TUSZEPQYMWVR	0.381 ± 0.049	0.384 ± 0.052	0.156	0.23	N/A	N/A

Dimensions listed include the termination

All dimensions are in inches

### Case Size Definitions (Leaded Parts)

Leaded Part Case Size	Lead Codes	Body Length	Body Width	Body Thickness	Max Lead Coverage (fillet)	Lead Length (Min.)	Lead Width	Lead Thickness	Offset Max
11 ribbon	A, B	.064 ± .024	.057 ± .021	0.060 max	50% max	0.2	.041 ± .009	.005 ± .002	--
17 ribbon	C						.086 ± .014	.004 ± .002	.030max
	A, B	.137 ± .029	.112 ± .026	0.120 max			.019 diameter	--	--
17 wire	E, F				--	--			

Lead Code Definitions	A	B	C	E	F
					

Body dimensions include termination, lead and ceramic.

All dimensions are in inches

**NOTE: Please contact a sales representative for Laser Marking and Packaging availability.**

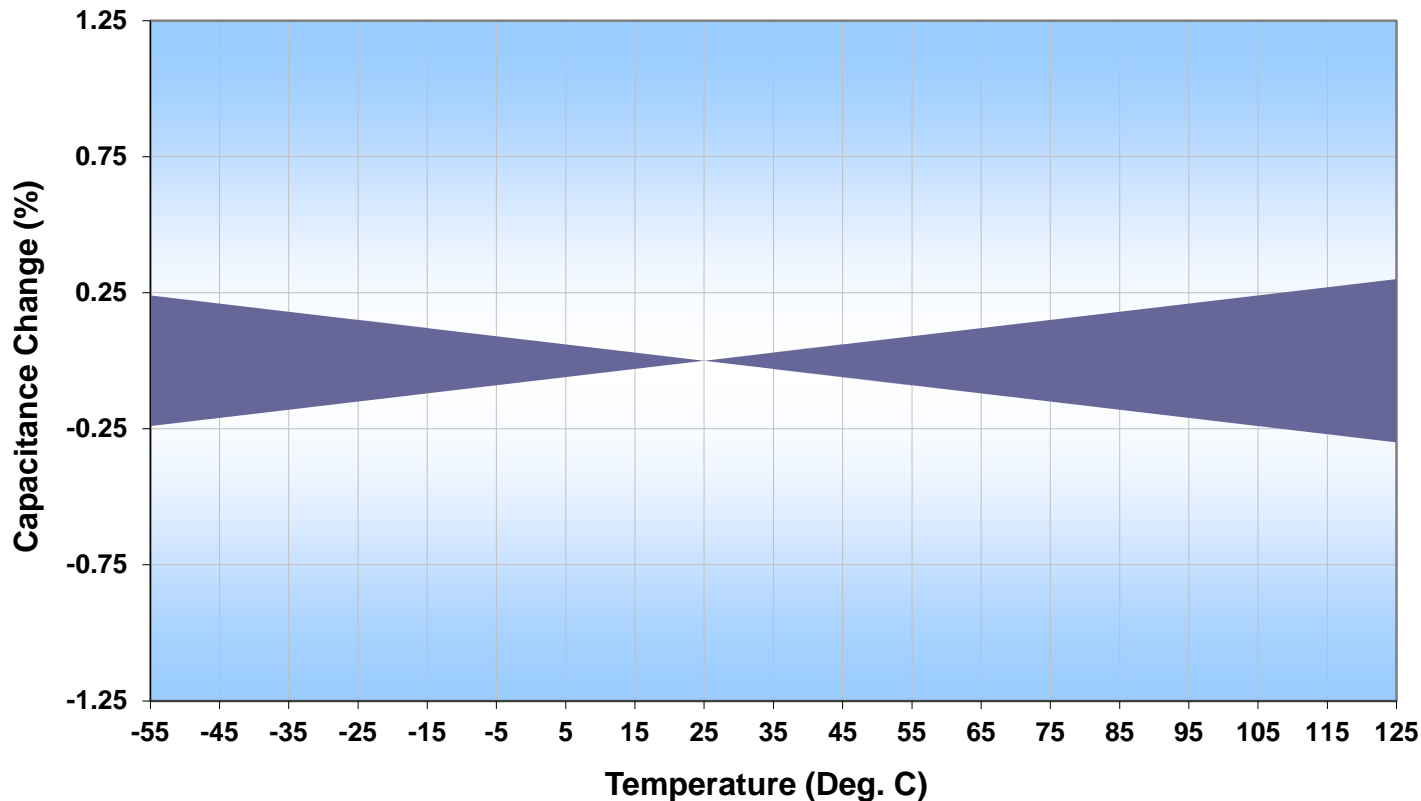
# AH SERIES MULTILAYER CAPACITORS

Capacitance Range and Voltage Rating Table <sup>(1)</sup>						
Code	Max Rated Voltage	Case Size Code (EIA)				
		Capacitance Range in pF				
		11 (0505)	17 (1111)	18 (1111) <sup>(2)</sup>	22 (2225)	40 (3838)
5	50 V	36 - 100	680 - 1000	Code 4 500 V	Code 9 250 V	Code 9 250 V
1	100 V		510 - 620			
8	150 V		220 - 470			
6	200 V					
9	250 V	0.1 - 33	110 - 200	Code 9 250 V	Code 8 150 V	Code 6 200 V
3	300 V					
4	500 V					
7	1000 V					
A	1500 V					
G	2000 V					
B	2500 V					
D	3600 V					
F	5000 V					
H	7200 V					

<sup>(1)</sup> DWV is 2.5x the rated voltage unless otherwise stated

<sup>(2)</sup> Enhanced C17 Case Size

## Temperature Coefficient of Capacitance UL Material



**Dielectric Laboratories Inc.**

Phone: 315-655-8710 Fax: 315-655-8179

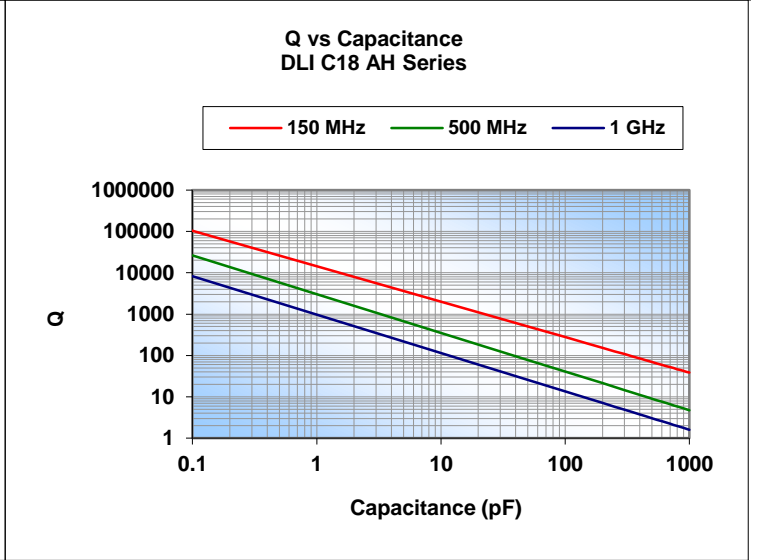
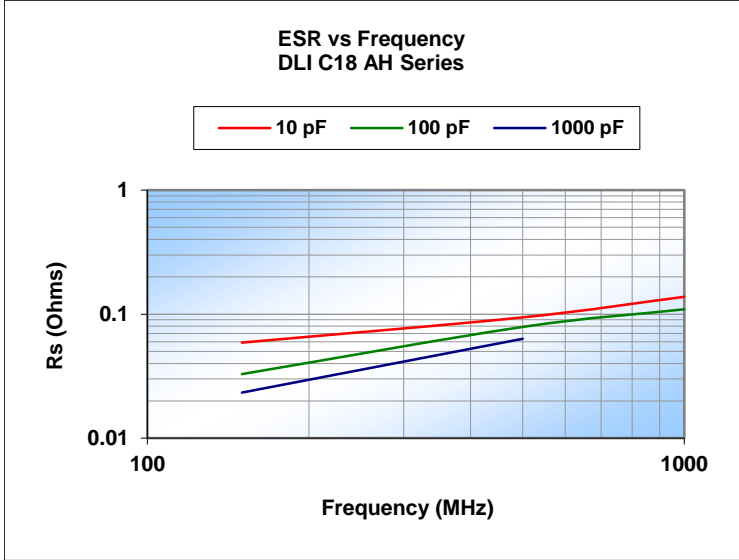
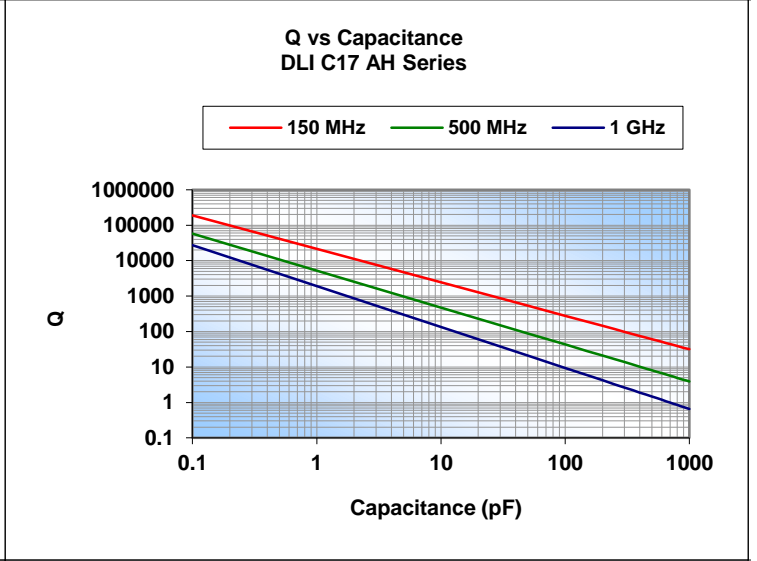
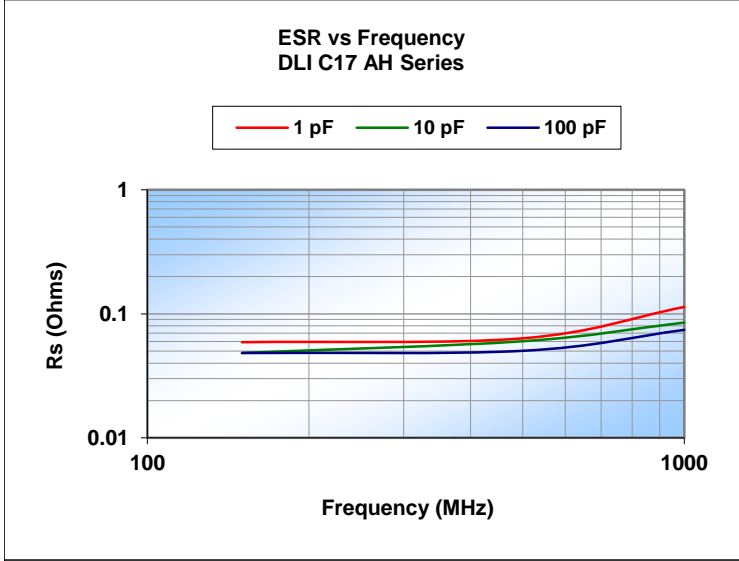
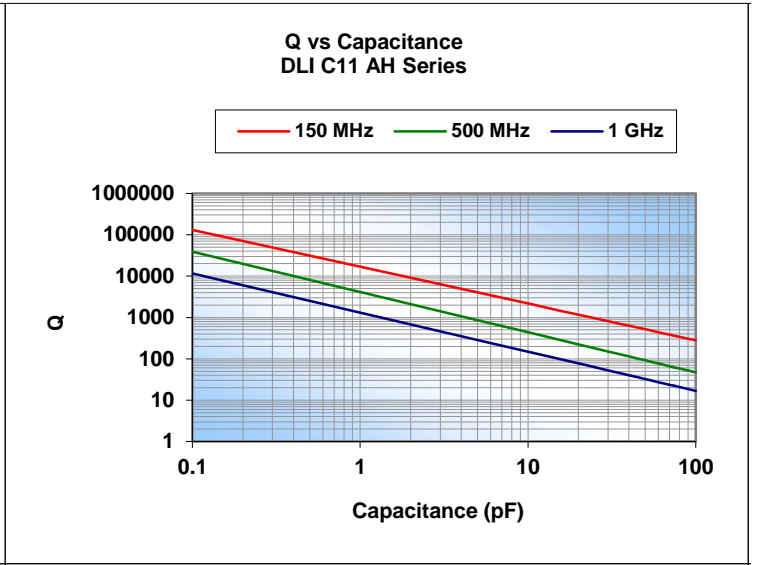
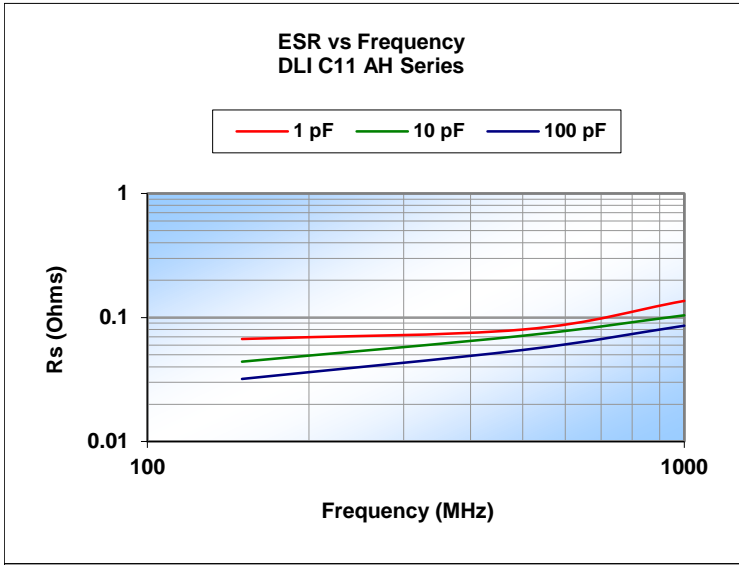
QUALITY SYSTEM AS9100 + ISO 9001:2000 CERTIFIED

2777 Route 20 East, Cazenovia, NY 13035

Email: [sales@dilabs.com](mailto:sales@dilabs.com) Web: <http://www.dilabs.com>

ENVIRONMENTAL SYSTEM ISO 14001:2004 CERTIFIED

# AH SERIES MULTILAYER CAPACITORS



**Dielectric Laboratories Inc.**

Phone: 315-655-8710 Fax: 315-655-8179

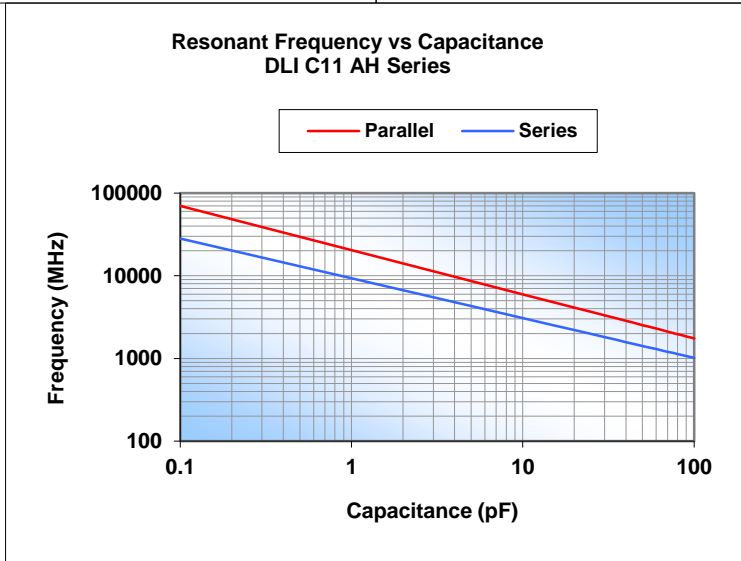
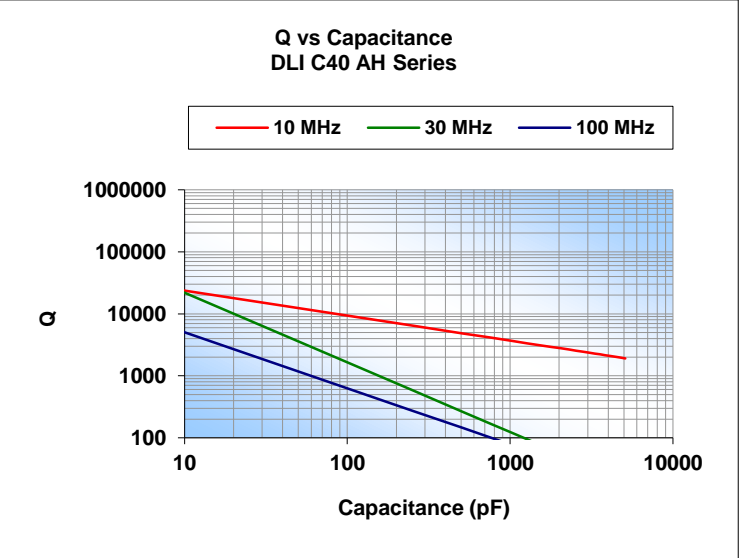
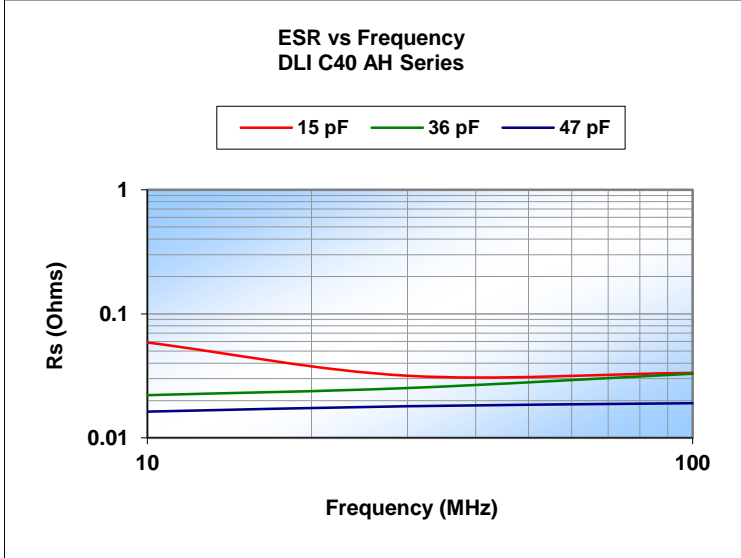
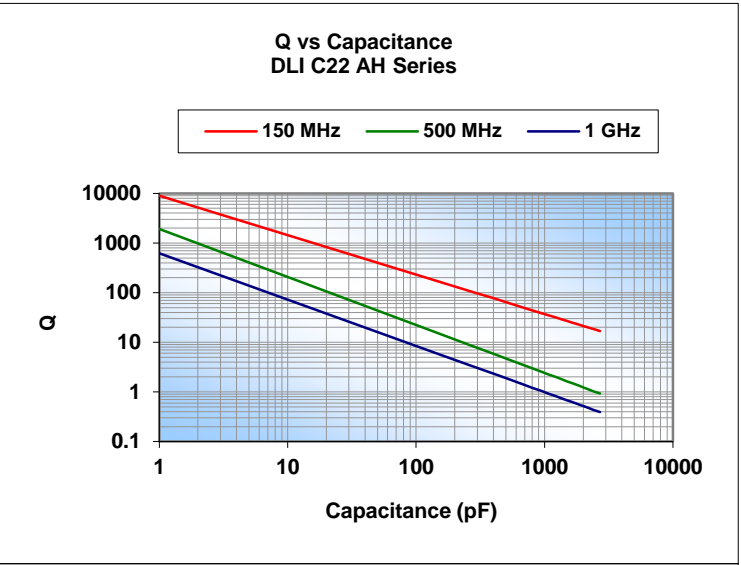
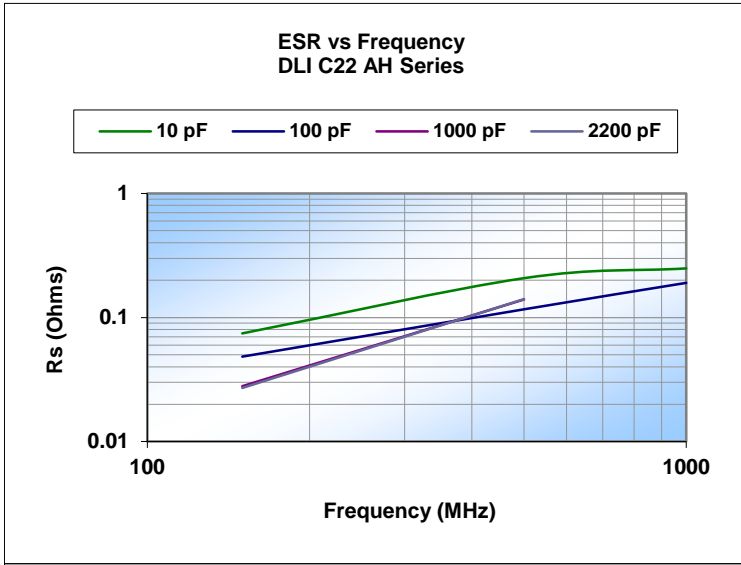
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# AH SERIES MULTILAYER CAPACITORS





# Multi-Layer – Standard P/N System

<b>C</b>	<b>17</b>	<b>CF</b>	<b>620</b>	<b>J</b>	-	<b>7</b>	<b>U</b>	<b>N</b>	-	<b>X</b>	<b>0</b>	<b>T</b>
----------	-----------	-----------	------------	----------	---	----------	----------	----------	---	----------	----------	----------

Multi-Layer Capacitor Case size Dimensions Material System Capacitance Value Tolerance Code Voltage Code Termination Code Leading Code Test Level Code Laser Marking Code Packaging Code

CASE SIZE	
Case	Dimensions
04	0.040" x 0.020"
06	0.060" x 0.030"
08	0.080" x 0.050"
11	0.055" x 0.055"
17	0.110" x 0.110"
18	0.110" x 0.110"
22	0.220" x 0.245"
40	0.380" x 0.380"

MATERIAL	
Material	Characteristics
AH	P90
CF	NPO High-Q
MS	NPO High-Q
UL	Ultra Low ESR
BL	DC Blocking

VOLTAGE	
Code	Voltage
5	50V
1	100V
8	150V
6	200V
9	250V
3	300V
4	500V
7	1000V
A	1500V
G	2000V
B	2500V
D	3600V
F	5000V
H	7200V
S	SPECIAL

TOLERANCE	
Code	Value
A	+/- 0.05pF
B	+/- 0.1pF
C	+/- 0.25pF
D	+/- 0.5pF
F	+/- 1%
G	+/- 2%
J	+/- 5%
K	+/- 10%
M	+/- 20%
X	GMV
S	SPECIAL

TERMINATION	
Code	Termination System
T	Ag Termination, Ni Barrier Layer, Heavy SnPb Plated Solder
U	Ag Termination, Ni Barrier Layer, SnPb Plated Solder
S	Ag Termination, Ni Barrier Layer, Gold Flash
Z	Ag Termination, Ni Barrier Layer, Sn Plated Solder
E	Ag Termination, Enhanced Ni Barrier Layer, Sn Plated Solder
P	AgPd Termination
M	Polymer Termination, Cu Barrier Layer, Sn Plated Solder
W	Ag Termination, Cu Barrier Layer, Sn Plated Solder
V	Ag Termination, Cu Barrier Layer, SnPb Plated Solder
R	Ag Termination, Cu Barrier Layer, Heavy SnPb Plated Solder

CAPACITANCE	
Code	Lead Type
1 <sup>st</sup> two digits	Significant figures in capacitance
3 <sup>rd</sup> digit	Additional number of zeros
R	Represents a decimal point
Examples: 620 = 62pF 152 = 1500pF	

LEADING	
Code	Lead Type
A	Axial Ribbon
B	Radial Ribbon
C	Center Ribbon
D	Specialty Customer Defined
E	Axial Wire
F	Radial Wire
N	NONE
NOTE: Consult factory for RoHS compliant leaded devices	

TEST LEVEL	
Code	Testing
X	Standard
Y	Reduced Visual
A	MIL-PRF-55681 Group A
C	MIL-PRF-55681 Group C
D	Customer Specified

LASER MARK	
Code	Laser Marking
0	No Marking
1	Single-side marked
2	Double-side marked
3	Large single-side mark
4	Large double-side mark
5	Vertical Edge marked
9	Customer Specified

PACKAGING	
Code	Packaging
T	Tape & Reel – Horizontal
V	Tape & Reel – Vertical
W	Waffle Pack
B	Bulk
P	Plastic Box
R	Tube (Rail)
S	Customer Specified

Note: All fields are required. Any specials, please consult factory.

