

CAPACITORS

ALUMINUM ELECTROLYTIC CAPACITORS

AC	336	M	100	T	G
TYPE	CAPACITANCE	TOLERANCE	VOLTAGE	PACKAGING	CASE CODE
AC	Expressed in pF.	M = 20%	Expressed	T = Tape & Reel	
ACP	First two digits are		Volts (dc)		
ACH	significant figures.		6.3		
ACHE	Third digit denotes		10		
ACHL	number of zeros.		16		
ACHZ			25		
ACHZ Extended			35		
ACU			50		
ACUS			63		
BCHL			100		

SPECIALTY POLYMER CAPACITORS

SPC	106	M	04	T
TYPE	CAPACITANCE	TOLERANCE	VOLTAGE	PACKAGING
	Expressed in pF.	M = 20%	Expressed in	T = Tape & Reel
	First two digits are		Volts (dc)	B = Bulk
	significant figures.		4 = 04	
	Third digit denotes		6.3 = 06	
	number of zeros.		8 = 08	
			12.5 = 12	
			16 = 16	

TANTALUM CAPACITORS

TC	106	M	6.3	B	T
TYPE	CAPACITANCE	TOLERANCE	VOLTAGE	CASE SIZE	PACKAGING
TC = Standard	Rated capacitance in PF	M = 20%	2.5 = 02	A (3216)	T = Tape & Reel
TCLE = Low ESR	is represented by a three-digit number.	K = 10%	4 = 04	B (3528)	Blank = Bulk
	First two digits significant.		6 (6.3) = 06	C (6032)	
	Third digit indicates number of zeros.		10 = 10	D (7343)	
			16 = 16	E (7343H)	
			20 = 20		
			25 = 25		
			35 = 35		
			50 = 50		

PLASTIC FILM CAPACITORS

PPC	104	J	16	T	G3
TYPE	CAPACITANCE	TOLERANCE	VOLTAGE	PACKAGING	CASE CODE
PPC	Expressed in pF.	G = ± 2%	16	T = Tape & Reel	
PPCL	First two digits are	J = ± 5%	25		
PEC	significant figures.		50		
PECL	Third digit denotes		100		
	number of zeros.		160		

CERAMIC CHIP CAPACITORS

CC	0805	CG	101	J	N	50	ER
SERIES	CASE SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	TERMINATION	VOLTAGE	PACKAGING
CC = Standard	CG = NPO	First two digits significant.	C = ± 0.25 pF			16	ER = Tape & Reel
CCL = Lead Free	XR = X7R	Third digit indicates	D = ± 0.5 pF			25	PR = Paper Tape /
	ZU = Z5U	number of zeros.	F = ± 1%			50	Tape & Reel
	YV = Y5V		G = ± 2%			100	
			J = ± 5%			250	
			K = ± 10%			500	
			M = ± 20%			102	
			Z = +80%, -20%			152	
			P = +100, -0%			202	

RESISTORS

CARBON COMPOSITE RESISTORS

RM	3	13	A	XXX	K
SERIES	DIAMETER (mm)	LENGTH (mm)	STANDARD	RESISTANCE	TOLERANCE
RM				1st two digits significant	J = ± 5%
RO				3rd is multiplier	K = ± 10%
					M = ± 20%

FILM CHIP RESISTORS

RC	315	C	103	J	T
SERIES	CASE CODE	TERMINATION	RESISTANCE	TOLERANCE	PACKAGING
RC - Thick Film	110 - 0402 (1/16W)	C = Sn/Pb	* 5% - 3 Digits	D = 5%	T = Tape & Reel
RT - Thin Film	115 - 0603 (1/10W)	T = Sn (Tin)	1st two significant	F = 1%	
RL - Low Ohmic	210 - 0805 (1/8W)		3rd multiplier (10*)	G = 2%	
	315 - 1206 (1/4W)		* 1% - 4 Digits	J = 5%	
	350 - 1210 (1/3W)		1st three significant		
	500 - 2010 (3/4W)		4th multiplier (10*)		
	1000 - 2512 (1W)		OR0 = Jumper "0" ohm		

METAL STRIP RESISTORS

RWN	5020	103	J	T
SERIES	TYPE	RESISTANCE	TOLERANCE	PACKAGING
	5020 - Power - Low Ohm.	Use "R" for decimal	F = 1%	T = Tape & Reel
	5021 - Power - Wirewound	5% - 3 Digits	J = 5%	
	5022 - Power Metal Film	1st two significant		
		3rd multiplier (10*)		
		1% - 4 Digits		
		1st three significant		
		4th multiplier (10*)		

NETWORKS

YC	16	4	L	J	F	104	T
SERIES	WIDTH/WATTAGE	NUMBER OF RESISTORS	CIRCUIT TYPE	TOLERANCE	TEMPERATURE COEFFICIENT	RESISTANCE	PACKAGING
YC16 - 8P/4R	15-1.6(1/32W)	2=2 Resistors	L=L Type	F=±1%	A=±5ppm/°C	Example	T = Tape & Reel
YC15 - 10P/8R	16-1.6(1/16W)	4=4 Resistors	T=T Type	G=±2%	B=±10ppm/°C	100 = 10Ω	
YC35 - 10P/8R	17-1.6(1/32W)	8=8 Resistors	--Ignore	J=±5%	C=±15ppm/°C	101 = 100Ω	
YC17 - 9P/8R	19-1.6(1/32W)	9=9 Resistors			D=±25ppm/°C	102 = 1,000Ω	
YC19 - 10P/8R	20-2.0(1/10W)	A=10 Resistors			E=±50ppm/°C	103 = 10,000Ω	
		32=3.2(1/8W)			F=±100ppm/°C	104 = 100,000Ω	
		35=3.2(1/16W)			G=±200ppm/°C		
					--Ignore		

INDUCTORS

MULTILAYER CHIP BEADS

MLB	160808	0120	A	N2	T
ITEM CODE	DIMENSION	IMPEDANCE/ Ω	TYPE	DESIGN NO.	PACKAGING
	160808 = 1.6 x .8 x .8		A		T = Tape & Reel
	201209 = 2 x 1.2 x .9		B		
	321611 = 3.2 x 1.6 x 1.1		P		
	321616 = 3.2 x 1.6 x 1.6		R		
	322513 = 3.2 x 2.5 x 1.3		L		
	451616 = 4.5 x 1.6 x 1.6		M		
	453215 = 4.5 x 3.2 x 1.5		H		

WOUND CHIP BEADS

SMB	403025	T
ITEM CODE	DIMENSION	PACKAGING
	302520	T = Tape & Reel
	403025	
	853025	

MULTILAYER CHIP INDUCTORS

MLI	160808	47N	K	T
ITEM CODE	DIMENSION	INDUCTANCE/ μ H	TOLERANCE	PACKAGING
	160808 = 1.6 x .8 x .8	Use "R" for decimal	J = $\pm 5\%$	T = Tape & Reel
	201209 = 2 x 1.2 x .9		K = $\pm 10\%$	
	321611 = 3.2 x 1.6 x 1.1		M = $\pm 20\%$	

WOUND CHIP INDUCTORS

SMI	453232	R10	M	T
ITEM CODE	DIMENSION	INDUCTANCE/ μ H	TOLERANCE	PACKAGING
SMI	322522	Use "R" for decimal	J = $\pm 5\%$	T = Tape & Reel
WCI	453232		K = $\pm 10\%$	
	565050		M = $\pm 20\%$	

HIGH FREQUENCY CHIP INDUCTOR - MULTILAYER

HFI	160808	47N	J	T
ITEM CODE	DIMENSION	INDUCTANCE/nH	TOLERANCE	PACKAGING
	160808 = 1.6 x .8 x .8	Use "N" for decimal	S = $\pm 0.3nH$	T = Tape & Reel
	201209 = 2 x 1.2 x .9	1N5 = 1.5nH	J = $\pm 5\%$	
		10N = 10nH	K = $\pm 10\%$	
		R10 = 100nH	M = $\pm 20\%$	

HIGH FREQUENCY CHIP INDUCTOR - WOUND

HFC	1608	2N2	J	T
ITEM CODE	DIMENSION	INDUCTANCE/nH	TOLERANCE	PACKAGING
	1608	Use "N" for decimal	S = $\pm 0.3nH$	T = Tape & Reel
	2012		J = $\pm 5\%$	
	2520		K = $\pm 10\%$	
	3225		M = $\pm 20\%$	