

Notes:

1. These parts are qualified to meet all the requirements of MIL-PRF-83446/10 with the additional inductance screening to  $\pm 3\%$  instead of the  $\pm 10\%$  specified in MIL-PRF-83446/10.
2. Exception to Table II of MIL-STD-981 for Class S devices, for Part Numbers 32547 through 32561, due to the AWG wire size is smaller than 44 (45 through 48).

Mark orange dot (indicated 3% tolerance) on the side of the part.

Terminations: Phosphor bronze with tin-lead plating.

Termination finish: Solder dip using Sn63 solder.

Classification

MIL-PRF-83446/10-YY-C

YY corresponds to the M83446/10 Dash Number (see Sheets 2 and 3)

Maximum Ambient Temperature: 90° C

MIL-STD-981 Quality Assurance Provisions

Class	Description	Drawing Number <sup>1</sup>
C	Commercial Parts	(C/ACM P/N) <sup>2</sup> -30
B	Group A Inspection	(C/ACM P/N)-31B
E	Group A Inspection	(C/ACM P/N)-31S
S	Group A Inspection	(C/ACM P/N)-31S and
	Group B Inspection	(C/ACM P/N)-85

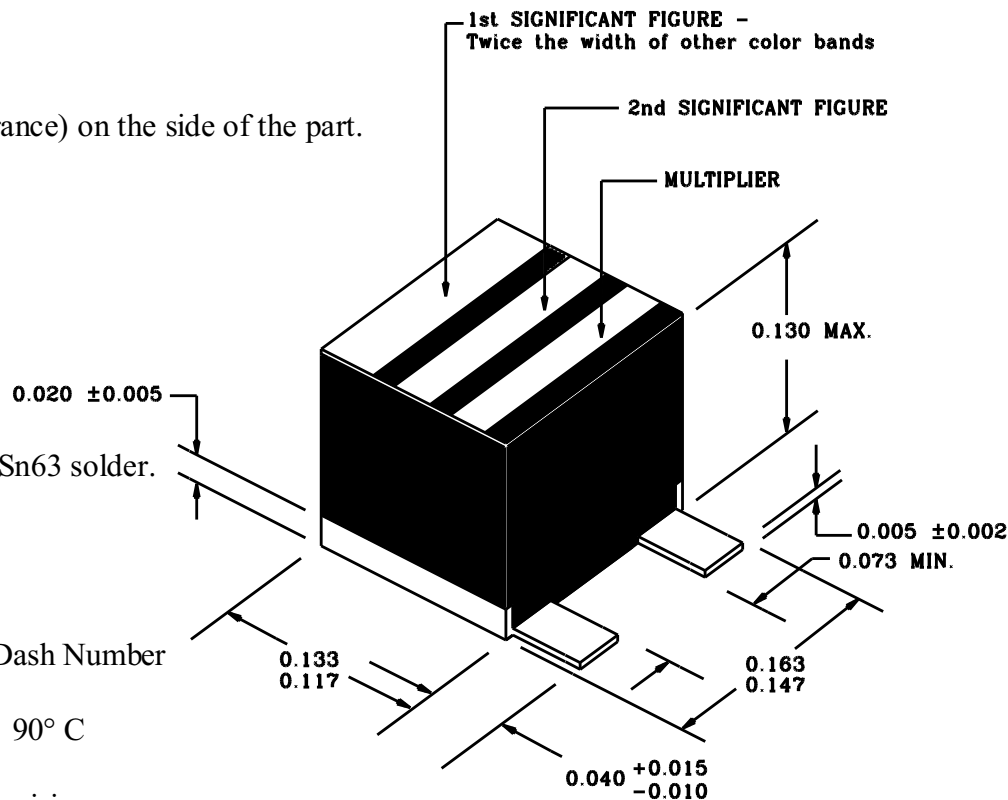
<sup>1</sup> The germane data will ship with the hardware.

<sup>2</sup> See Sheets 2 and 3 for C/ACM P/N

Electrical Characteristics Per Table on Sheets 2 and 3

**These Parts Are Manufactured in Strict Compliance to MIL-STD-981, Except as Noted.**

REVISIONS			
REV.	DESCRIPTION	DATE	BY



The "X" in the part number refers to the Quality Level (C, B, E or S), see Quality Assurance Provisions above.

UNLESS OTHERWISE SPECIFIED:  
Dimensions are in inches, and tolerances are:

Fractions	Decimals	Angles
$\pm 1/64$	.X = $\pm 0.1$ .XX = $\pm 0.03$ .XXX = $\pm 0.010$	$\pm 1/2^\circ$

<b>COAST/ACM</b>		
TITLE <b>Coils, RF, Chip, Fixed</b>		
FSCM <b>22558</b>	DWG. NO <b>32500X</b>	REV.
DO NOT SCALE DRAWING	DRAWN BY Jim Allen	DATE 02/19/03
SCALE: none	MAX. WT.: 0.5 grams	SHEET 1 OF 3

C/ACM P/N	M83446/10 Dash No.	Inductance ( $\mu$ H) $\pm$ 3%	Q Minimum	Test Freq (MHz)	SRF (MHz) Minimum	DCR ( $\Omega$ ) Maximum	DC Current (mA) Max.
32501	01	0.010	60	150	2000	0.04	1000
32502	02	0.012	70	150	1800	0.04	1000
32503	03	0.015	75	150	1500	0.04	1000
32504	04	0.018	75	150	1500	0.04	1000
32505	05	0.022	60	100	1300	0.05	1000
32506	06	0.027	60	100	1300	0.05	1000
32507	07	0.033	60	100	1000	0.05	1000
32508	08	0.039	60	100	1000	0.06	900
32509	09	0.047	65	100	800	0.06	900
32510	10	0.056	65	100	760	0.06	900
32511	11	0.068	65	100	700	0.07	840
32512	12	0.082	65	100	650	0.07	840
32513	13	0.100	65	50	570	0.07	840
32514	14	0.120	65	50	520	0.07	840
32515	15	0.150	75	50	400	0.08	790
32516	16	0.180	75	50	360	0.08	790
32517	17	0.220	70	50	320	0.08	790
32518	18	0.270	70	50	270	0.10	700
32519	19	0.330	70	50	240	0.10	700
32520	20	0.390	70	50	220	0.10	700
32521	21	0.470	70	25	190	0.14	590
32522	22	0.560	70	25	170	0.19	510
32523	23	0.680	70	25	160	0.26	430
32524	24	0.820	75	25	150	0.30	400
32525	25	1.00	75	25	130	0.34	380
32526	26	1.20	65	7.9	120	0.45	330
32527	27	1.50	65	7.9	110	0.57	290
32528	28	1.80	65	7.9	100	0.72	260
32529	29	2.20	65	7.9	80	0.90	230
32530	30	2.70	65	7.9	60	1.1	210

<b>COAST/ACM</b>	TITLE <b>Coils, RF, Chip, Fixed</b>	
	DWG. NO.: 32500X	SHEET 2 OF 3

C/ACM P/N	M83446/10 Dash No.	Inductance ( $\mu$ H) $\pm$ 3%	Q Minimum	Test Freq (MHz)	SRF (MHz) Minimum	DCR ( $\Omega$ ) Maximum	DC Current (mA) Max.
32531	31	3.30	60	7.9	50	1.2	200
32532	32	3.90	60	7.9	45	1.4	180
32533	33	4.70	60	7.9	42	1.6	170
32534	34	5.60	65	7.9	40	1.8	160
32535	35	6.80	65	7.9	37	2.4	140
32536	36	8.20	65	7.9	34	3.0	130
32537	37	10.0	65	7.9	29	3.5	120
32538	38	12.0	60	2.5	27	3.6	118
32539	39	15.0	60	2.5	22	3.7	115
32540	40	18.0	60	2.5	17	3.8	114
32541	41	22.0	60	2.5	16	3.9	113
32542	42	27.0	65	2.5	15	4.0	110
32543	43	33.0	65	2.5	14	5.0	100
32544	44	39.0	65	2.5	13	7.0	84
32545	45	47.0	70	2.5	12	8.0	79
32546	46	56.0	70	2.5	11	10	70
32547	47	68.0	65	2.5	10	11	67
32548	48	82.0	60	2.5	9	12	64
32549	49	100.0	60	2.5	8	13	62
32550	50	120.0	40	0.79	7	14	59
32551	51	150.0	40	0.79	6	16	56
32552	52	180.0	40	0.79	5	18	52
32553	53	220.0	40	0.79	4	24	45
32554	54	270.0	40	0.79	3.3	25	44
32555	55	330.0	40	0.79	3.1	29	41
32556	56	390.0	40	0.79	2.9	32	39
32557	57	470.0	35	0.79	2.4	35	37
32558	58	560.0	35	0.79	2.1	45	33
32559	59	680.0	35	0.79	1.9	55	30
32560	60	820.0	30	0.79	1.8	70	26
32561	61	1000	30	0.79	1.7	80	25

<b>COAST/ACM</b>	TITLE <b>Coils, RF, Chip, Fixed</b>	
	DWG. NO.: 32500X	SHEET 3 OF 3