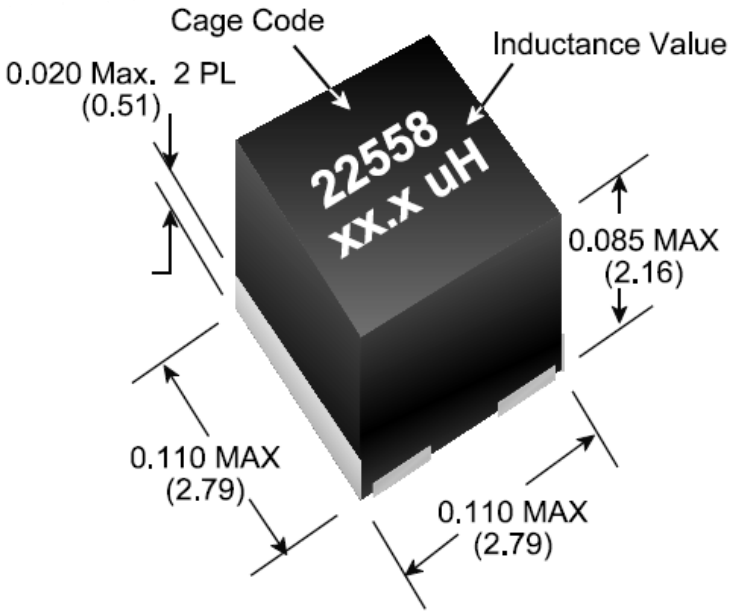
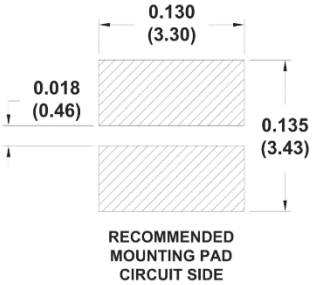
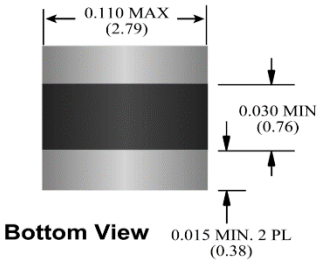
Fixed Chip Inductors – 4000 Series



Inches
(Millimeters)

MIL-PRF-83446
Qualified Products List (QPL)
QPL: M83446/04





SPECIFICATIONS

- **Inductance:** 0.010 µH to 27 µH
- **Standard Tolerance:** ±10%
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Standard Termination Finish:** Tin-lead
- **Weight:** 0.5 gram, maximum
- **Dielectric Withstanding Voltage:** Method 301 of MIL-STD-202, test voltage 200 Vrms
- **Barometric Pressure:** Method 105, test condition C, MIL-STD-202 (70,000 feet), test voltage 80 Vrms
- **Glass Transition Temperature (T_g):** 165°C
- **Coefficient of Thermal Expansion (CTE):**
  Before T_g 18 ppm/°C
  After T_g 54 ppm/°C

FEATURES

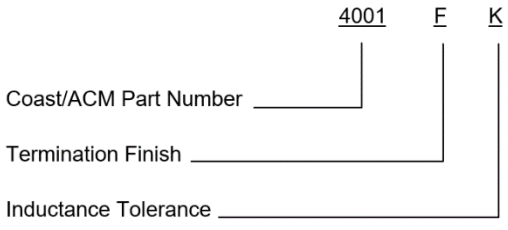
- Transfer Molded Package
- Laser Marking
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Termination Finish Options available (additional charge)
- Tighter Tolerances available (additional charge)
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity: 2000 pieces
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package type
- Available for Space Application per MIL-STD-981 (see S4000 Series)

APPLICATIONS

Designed to meet the requirements of MIL-PRF-83446, ensuring optimal performance in military-grade applications.

This specification pertains to molded, shielded electrical connectors and accessories, emphasizing reliability and robustness. Ideal for aerospace and defense applications, these inductors offer both durability and precision.

PART IDENTIFYING NUMBER



F: Termination Finish
A: Gold *F: Tin-lead*

K: Inductance Tolerance
M: ±20% *K: ±10%* *J: ±5%* *H: ±3%* *G: ±2%* *F: ±1%*

Fixed Chip Inductors – 4000 Series

Dash Number	C/ACM P/N	Inductance (µH)	Test Frequency (MHz)	Q (min)	SRF (min) MHz	DCR (max) ohms	Current (max) mA
M83446/04-01	4001	0.12 ±10%	25	30	750	.125	880
M83446/04-02	4002	0.15 ±10%	25	25	650	.175	745
M83446/04-03	4003	0.18 ±10%	25	25	550	.200	695
M83446/04-04	4004	0.22 ±10%	25	25	450	.220	665
M83446/04-05	4005	0.27 ±10%	25	25	375	.230	650
M83446/04-06	4006	0.33 ±10%	25	25	300	.235	645
M83446/04-07	4007	0.39 ±10%	25	22	235	.240	635
M83446/04-08	4008	0.47 ±10%	25	22	215	.260	610
M83446/04-09	4009	0.56 ±10%	25	22	195	.278	590
M83446/04-10	4010	0.68 ±10%	25	22	175	.520	435
M83446/04-11	4011	0.82 ±10%	25	22	160	.530	430
M83446/04-12	4012	1.0 ±10%	25	22	145	.540	425
M83446/04-13	4013	1.2 ±10%	7.9	22	130	.740	360
M83446/04-14	4014	1.5 ±10%	7.9	22	115	.840	340
M83446/04-15	4015	1.8 ±10%	7.9	22	105	.920	325
M83446/04-16	4016	2.2 ±10%	7.9	22	85	1.00	310
M83446/04-17	4017	2.7 ±10%	7.9	24	77	1.15	290
M83446/04-18	4018	3.3 ±10%	7.9	24	70	1.40	260
M83446/04-19	4019	3.9 ±10%	7.9	24	68	1.55	250
M83446/04-20	4020	4.7 ±10%	7.9	24	60	1.80	230
M83446/04-21	4021	5.6 ±10%	7.9	22	55	2.00	220
M83446/04-22	4022	6.8 ±10%	7.9	22	50	2.20	210
M83446/04-23	4023	8.2 ±10%	7.9	22	48	2.50	195
M83446/04-24	4024	10.0 ±10%	7.9	24	40	3.45	165
M83446/04-25	4025	12.0 ±10%	2.5	25	35	3.80	160
M83446/04-26	4026	15.0 ±10%	2.5	25	30	5.60	135
M83446/04-27	4027	18.0 ±10%	2.5	25	28	5.80	130
M83446/04-28	4028	22.0 ±10%	2.5	25	25	6.40	125
M83446/04-29	4029	27.0 ±10%	2.5	25	22	6.90	120
M83446/04-30	4030	0.010 ±20%	50	60	2700	.060	1270
M83446/04-31	4031	0.015 ±20%	50	55	2200	.078	1110
M83446/04-32	4032	0.022 ±20%	50	50	1800	.108	950
M83446/04-33	4033	0.033 ±20%	50	48	1450	.120	900
M83446/04-34	4034	0.047 ±20%	50	42	1220	.145	820
M83446/04-35	4035	0.068 ±20%	50	36	1000	.195	705
M83446/04-36	4036	0.100 ±20%	50	32	830	.230	650
M83446/04-37	4037	0.010 ±10%	50	60	2700	.060	1270
M83446/04-38	4038	0.012 ±10%	50	57	2450	.069	1190
M83446/04-39	4039	0.015 ±10%	50	55	2200	.078	1110
M83446/04-40	4040	0.018 ±10%	50	52	2000	.093	1030
M83446/04-41	4041	0.022 ±10%	50	50	1800	.108	950
M83446/04-42	4042	0.027 ±10%	50	49	1625	.114	925
M83446/04-43	4043	0.033 ±10%	50	48	1450	.120	900
M83446/04-44	4044	0.039 ±10%	50	45	1335	.133	860
M83446/04-45	4045	0.047 ±10%	50	42	1220	.145	820
M83446/04-46	4046	0.056 ±10%	50	39	1110	.170	760
M83446/04-47	4047	0.068 ±10%	50	36	1000	.195	705
M83446/04-48	4048	0.082 ±10%	50	34	915	.212	675
M83446/04-49	4049	0.100 ±10%	50	32	830	.230	650