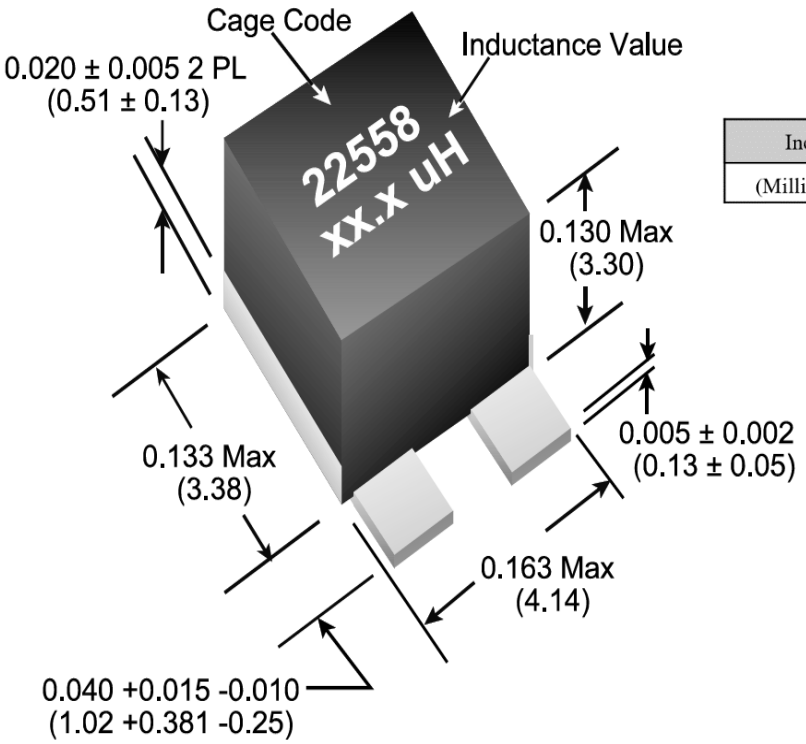
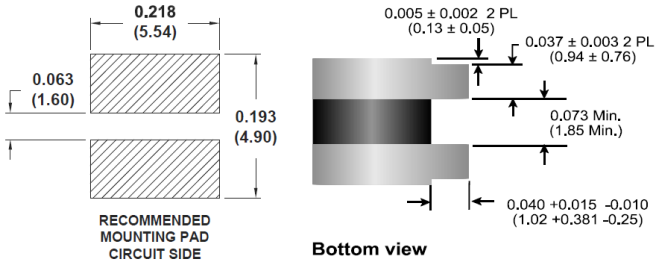
Fixed Chip Inductors – 11000 Series



Inches
(Millimeters)

MIL-PRF-83446
Qualified Products List (QPL)
QPL: M83446/11



SPECIFICATIONS

- **Inductance:** 0.10 µH to 10000 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 500 Vrms
- **Barometric Pressure:** Method 105, test condition C, MIL-STD-202 (70,000 feet), test voltage 200 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

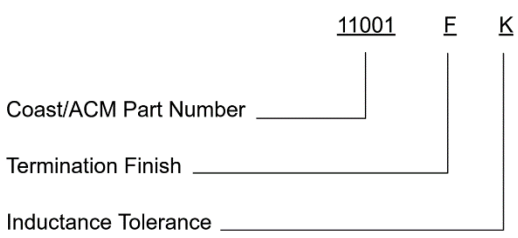
- Transfer Molded Package
- Laser Marking
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Termination Finish Options available (additional charge)
- Tighter Tolerances available (additional charge)
- Tape and Reel Packaging Available (additional charge)
  Full Reel Quantity (Tabs): 600 pieces
  Full Reel Quantity (No Tabs): 650 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 S11000 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 – 11000 Series

With Tabs		Without Tabs		Inductance (µH)	Test Frequency (MHz)	Q (min)	Q Typ	SRF (min) MHz	DCR (max) ohms	Current (max) mA
Dash Number	C/ACM P/N	Dash Number	C/ACM P/N							
M83446/11-01	11001	M83446/11-62	11062	0.10 ±10%	25	90	100	600	.03	1000
M83446/11-02	11002	M83446/11-63	11063	0.12 ±10%	25	90	100	520	.03	1000
M83446/11-03	11003	M83446/11-64	11064	0.15 ±10%	25	90	100	490	.03	1000
M83446/11-04	11004	M83446/11-65	11065	0.18 ±10%	25	90	100	460	.04	1000
M83446/11-05	11005	M83446/11-66	11066	0.22 ±10%	25	90	100	430	.04	1000
M83446/11-06	11006	M83446/11-67	11067	0.27 ±10%	25	100	113	370	.04	1000
M83446/11-07	11007	M83446/11-68	11068	0.33 ±10%	25	105	120	310	.05	750
M83446/11-08	11008	M83446/11-69	11069	0.39 ±10%	25	115	130	280	.05	750
M83446/11-09	11009	M83446/11-70	11070	0.47 ±10%	25	115	130	260	.05	750
M83446/11-10	11010	M83446/11-71	11071	0.56 ±10%	25	115	130	240	.06	700
M83446/11-11	11011	M83446/11-72	11072	0.68 ±10%	25	115	130	200	.06	700
M83446/11-12	11012	M83446/11-73	11073	0.82 ±10%	25	115	130	185	.06	700
M83446/11-13	11013	M83446/11-74	11074	1.0 ±10%	25	115	130	175	.09	650
M83446/11-14	11014	M83446/11-75	11075	1.2 ±10%	7.9	90	100	150	.09	650
M83446/11-15	11015	M83446/11-76	11076	1.5 ±10%	7.9	100	115	135	.14	600
M83446/11-16	11016	M83446/11-77	11077	1.8 ±10%	7.9	100	115	120	.20	500
M83446/11-17	11017	M83446/11-78	11078	2.2 ±10%	7.9	100	115	105	.30	400
M83446/11-18	11018	M83446/11-79	11079	2.7 ±10%	7.9	100	115	85	.40	350
M83446/11-19	11019	M83446/11-80	11080	3.3 ±10%	7.9	100	115	80	.46	330
M83446/11-20	11020	M83446/11-81	11081	3.9 ±10%	7.9	105	120	64	.52	310
M83446/11-21	11021	M83446/11-82	11082	4.7 ±10%	7.9	115	130	56	.54	300
M83446/11-22	11022	M83446/11-83	11083	5.6 ±10%	7.9	115	130	49	.60	285
M83446/11-23	11023	M83446/11-84	11084	6.8 ±10%	7.9	115	130	45	.66	270
M83446/11-24	11024	M83446/11-85	11085	8.2 ±10%	7.9	115	130	41	1.00	225
M83446/11-25	11025	M83446/11-86	11086	10.0 ±10%	7.9	115	130	39	1.20	200
M83446/11-26	11026	M83446/11-87	11087	12.0 ±10%	2.5	100	113	34	1.5	180
M83446/11-27	11027	M83446/11-88	11088	15.0 ±10%	2.5	100	113	30	1.8	170
M83446/11-28	11028	M83446/11-89	11089	18.0 ±10%	2.5	100	113	26	1.9	160
M83446/11-29	11029	M83446/11-90	11090	22.0 ±10%	2.5	105	120	23	2.1	150
M83446/11-30	11030	M83446/11-91	11091	27.0 ±10%	2.5	110	125	20	2.4	140
M83446/11-31	11031	M83446/11-92	11092	33.0 ±10%	2.5	115	130	18	2.7	130
M83446/11-32	11032	M83446/11-93	11093	39.0 ±10%	2.5	115	130	17	3.1	125
M83446/11-33	11033	M83446/11-94	11094	47.0 ±10%	2.5	115	130	16	3.2	125
M83446/11-34	11034	M83446/11-95	11095	56.0 ±10%	2.5	110	125	14	3.5	120
M83446/11-35	11035	M83446/11-96	11096	68.0 ±10%	2.5	110	125	12	4.0	111
M83446/11-36	11036	M83446/11-97	11097	82.0 ±10%	2.5	110	125	10	4.8	102
M83446/11-37	11037	M83446/11-98	11098	100.0 ±10%	2.5	110	125	9.4	5.7	93
M83446/11-38	11038	M83446/11-99	11099	120.0 ±10%	0.79	85	95	8.0	6.2	89
M83446/11-39	11039	M83446/11-100	11100	150.0 ±10%	0.79	85	95	8.0	6.3	89
M83446/11-40	11040	M83446/11-101	11101	180.0 ±10%	0.79	85	95	6.9	6.4	88
M83446/11-41	11041	M83446/11-102	11102	220.0 ±10%	0.79	85	95	6.1	7.4	82
M83446/11-42	11042	M83446/11-103	11103	270.0 ±10%	0.79	85	95	5.2	8.1	78
M83446/11-43	11043	M83446/11-104	11104	330.0 ±10%	0.79	100	113	4.6	8.8	75
M83446/11-44	11044	M83446/11-105	11105	390.0 ±10%	0.79	100	113	4.0	9.7	72
M83446/11-45	11045	M83446/11-106	11106	470.0 ±10%	0.79	100	113	3.6	10.0	69
M83446/11-46	11046	M83446/11-107	11107	560.0 ±10%	0.79	100	113	2.8	11.0	66
M83446/11-47	11047	M83446/11-108	11108	680.0 ±10%	0.79	100	113	2.3	12.0	64
M83446/11-48	11048	M83446/11-109	11109	820.0 ±10%	0.79	95	106	2.1	17.0	53
M83446/11-49	11049	M83446/11-110	11110	1000.0 ±10%	0.79	95	106	2.0	22.0	47
M83446/11-50	11050	M83446/11-111	11111	1200.0 ±10%	0.25	75	87	1.7	24.0	45
M83446/11-51	11051	M83446/11-112	11112	1500.0 ±10%	0.25	75	87	1.6	25.0	44
M83446/11-52	11052	M83446/11-113	11113	1800.0 ±10%	0.25	75	87	1.5	27.0	43
M83446/11-53	11053	M83446/11-114	11114	2200.0 ±10%	0.25	75	87	1.4	30.0	40
M83446/11-54	11054	M83446/11-115	11115	2700.0 ±10%	0.25	75	87	1.3	34.0	38
M83446/11-55	11055	M83446/11-116	11116	3300.0 ±10%	0.25	75	87	1.2	39.0	35
M83446/11-56	11056	M83446/11-117	11117	3900.0 ±10%	0.25	75	87	1.1	56.0	29
M83446/11-57	11057	M83446/11-118	11118	4700.0 ±10%	0.25	75	87	1.0	70.0	26
M83446/11-58	11058	M83446/11-119	11119	5600.0 ±10%	0.25	75	87	0.90	80.0	25
M83446/11-59	11059	M83446/11-120	11120	6800.0 ±10%	0.25	75	85	0.80	90.0	23
M83446/11-60	11060	M83446/11-121	11121	8200.0 ±10%	0.25	75	85	0.70	100.0	22
M83446/11-61	11061	M83446/11-122	11122	10000.0 ±10%	0.25	75	85	0.70	110.0	21