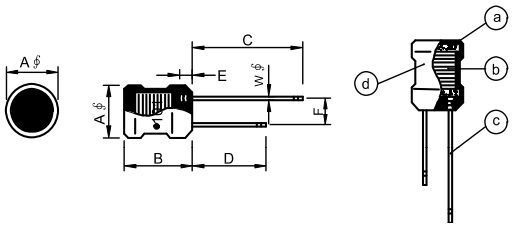
FEATURES

Entire winding core is encapsulated in heat shrinked UL tube to provide mechanical and environmental protection.
Low cost with rugged reliability and performance fixed inductor.
The products contain no lead and also support lead-free soldering.

APPLICATIONS

Excellent as DC-DC converter boost or buck inductors.
Also used for filtering applications.

DIMENSIONS



Chip Size:0507

A	B	C	D	E	F	W
5.5±0.5	9.0±1.0	15 min.	10 min.	2.5max.	2.5±0.5	Φ0.60

All dimensions in units:mm

	Material
a.Core	Ferrite DR Core
b.Wire	Enamelled Copper Wire 150℃
c.Lead	Tinned Copper Wire
d.shrinkable UL Tube 125℃,600V	

PART NUMBERING

PK2W 0507 F — 1R0 M

- PK2W — Series Name
- 0507 — Dimension (AxB)
- F — Lead Free Code
- 1R0 — Inductance (1R0=1.0uH)
- M — Inductance Tolerance (K=±10%, M=±20%)

SPECIFICATION

Part Number	Inductance (uH)	Q min	Test Frequency L.Q	SRF (MHz)min	DCR (Ω)max	IDC (mA)max
PK2W0507F-1R0M	1.0	85	7.96MHz	120	0.014	3500
PK2W0507F-1R5M	1.5	85	7.96MHz	90	0.02	3000
PK2W0507F-2R2M	2.2	85	7.96MHz	55	0.02	2500
PK2W0507F-3R3M	3.3	85	7.96MHz	50	0.03	2000
PK2W0507F-4R7M	4.7	80	7.96MHz	30	0.04	1700
PK2W0507F-6R8M	6.8	75	7.96MHz	25	0.06	1300
PK2W0507F-100K	10	70	2.52MHz	22	0.08	1000
PK2W0507F-120K	12	70	2.52MHz	20	0.10	950
PK2W0507F-150K	15	65	2.52MHz	16	0.11	900
PK2W0507F-180K	18	50	2.52MHz	14	0.11	800
PK2W0507F-220K	22	50	2.52MHz	14	0.12	700
PK2W0507F-270K	27	50	2.52MHz	12	0.14	600
PK2W0507F-330K	33	50	2.52MHz	10	0.16	550
PK2W0507F-390K	39	45	2.52MHz	9.0	0.18	500
PK2W0507F-470K	47	45	2.52MHz	9.0	0.20	500
PK2W0507F-560K	56	35	2.52MHz	8.0	0.22	450
PK2W0507F-680K	68	35	2.52MHz	8.0	0.30	450
PK2W0507F-820K	82	35	2.52MHz	7.0	0.34	400
PK2W0507F-101K	100	20	796KHz	6.0	0.36	400
PK2W0507F-121K	120	20	796KHz	5.5	0.44	350
PK2W0507F-151K	150	20	796KHz	5.0	0.52	300
PK2W0507F-181K	180	20	796KHz	4.5	0.65	300
PK2W0507F-221K	220	20	796KHz	4.0	0.75	250
PK2W0507F-271K	270	25	796KHz	3.5	1.0	240
PK2W0507F-331K	330	25	796KHz	3.0	1.3	200
PK2W0507F-391K	390	25	796KHz	3.0	1.4	180
PK2W0507F-471K	470	25	796KHz	2.7	1.6	160
PK2W0507F-561K	560	25	796KHz	2.5	2.0	160
PK2W0507F-681K	680	25	796KHz	2.4	2.3	140
PK2W0507F-821K	820	25	796KHz	2.2	2.7	130
PK2W0507F-102K	1000	50	252KHz	2.0	3.1	120

Part Number	Inductance (uH)	Q min	Test Frequency L.Q	SRF (MHz)min	DCR (Ω)max	IDC (mA)max
PK2W0507F-122K	1200	65	252KHz	1.5	4.6	110
PK2W0507F-152K	1500	65	252KHz	1.3	5.3	100
PK2W0507F-182K	1800	65	252KHz	1.2	6.2	90
PK2W0507F-222K	2200	65	252KHz	1.1	6.8	80
PK2W0507F-272K	2700	80	252KHz	1.0	10	60
PK2W0507F-332K	3300	75	252KHz	0.95	12	60
PK2W0507F-392K	3900	70	252KHz	0.90	13	55
PK2W0507F-472K	4700	65	252KHz	0.90	15	55
PK2W0507F-562K	5600	65	252KHz	0.80	22	50
PK2W0507F-682K	6800	65	252KHz	0.75	25	45
PK2W0507F-822K	8200	65	252KHz	0.70	28	45
PK2W0507F-103K	10000	65	79.6KHz	0.60	35	35
PK2W0507F-123K	12000	65	79.6KHz	0.45	45	30
PK2W0507F-153K	15000	65	79.6KHz	0.40	52	30
PK2W0507F-183K	18000	65	79.6KHz	0.40	58	30
PK2W0507F-223K	22000	65	79.6KHz	0.35	80	20
PK2W0507F-273K	27000	65	79.6KHz	0.30	90	20
PK2W0507F-333K	33000	55	79.6KHz	0.25	135	15
PK2W0507F-393K	39000	55	79.6KHz	0.25	150	15
PK2W0507F-473K	47000	55	79.6KHz	0.25	170	15

Application Notice

●Storage Conditions

To maintain the solderability of terminal electrodes:

1. Temperature and humidity conditions:-10~40℃ and 30~70% RH.
2. Recommended products should be used within 6 months from the time of delivery.
3. The packaging material should be kept where on chlorine or sulfur exists in the air.

●Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.