



**THE DATASHEET OF
300LS-820K=P2**

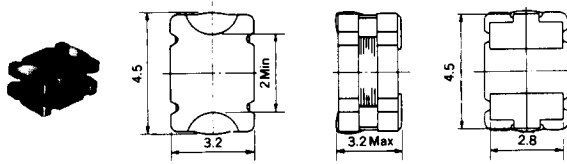


TYPE 43FS

For Reflow Soldering

Inductance Range: 0.1 μ H-1000 μ H

Temperature Coefficient: -200 - 1000ppm/°C



Quality Features:

- Ideal for hybrid and traditional circuits due to its precise Q for size.
- Specially developed ferrite core materials have high frequency response for wider frequency range.
- Ceramic core material is available for higher frequency ranges. Low thermal coefficient assures minimal drift of F and L values.
- Two levels of terminations are employed. The winding is terminated to a palladium silver pad and then the pad is covered and welded with a phosphorous dioxide copper terminal clamp. The assembly is then presoldered. The terminal presolder has the lowest melting point to protect other parts and prevent leaching.
- Compact package. Conforms to SMTA standard size Code B, for automatic assembly equipment. Available on 12mm embossed tape reel.
- Solid phosphorous dioxide copper pads have eutectic solder coating.
- Operating range -10°C to +60°C continuous.
- Reflows at 235 to 245°C, 5 to 10 seconds, maximum.
- Withstands Freon and Chlorothane degreasing.

STANDARD DEVICES SELECTION GUIDE

The Part Numbers shown in the table below are standard devices, which are readily available. TOKO will design and manufacture modified and custom devices with specific characteristics to meet your requirements. If you do not find the device for your application in this catalog, please see Modified and Custom Request Form located in the rear of this catalog.

1. Add the following tolerance code to Part No. within (): J = \pm 5%, K \pm 10%, K \pm 10% or M = \pm 20%.
2. The rated DC current is which the Temperature rise by excitation DC current (According to MIL-C-15305)

TYPE 43FS

TOKO Part Number	Inductance (μ H)	Q (min.)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated DC Current ² (mA) max.	Self Resonant Frequency (MHz) min.
300NS-R10M	0.1	23	25.2	290	290	400
300NS-R12M	0.12	23	25.2	320	250	350
300NS-R15M	0.15	23	25.2	360	220	260
300NS-R18M	0.18	23	25.2	390	210	215
300NS-R22M	0.22	22	25.2	430	190	170
300NS-R27M	0.27	22	25.2	490	170	140
300NS-R33M	0.33	21	25.2	540	180	120
300NS-R39M	0.39	21	25.2	590	155	120
300NS-R47M	0.47	20	25.2	640	150	100
300NS-R56M	0.56	19	25.2	700	145	90
300NS-R88M	0.68	18	25.2	770	140	80
300NS-R82M	0.82	17	25.2	860	135	70
300LS-1R0 (M,K)	1.0	50	7.96	0.42	250	150
300LS-1R2 (M,K)	1.2	50	7.96	0.46	240	120
300LS-1R5 (M,K)	1.5	50	7.96	0.49	230	105
300LS-1R8 (M,K)	1.8	50	7.96	0.55	220	90
300LS-2R2 (M,K)	2.2	50	7.96	0.59	200	80
300LS-2R7 (M,K)	2.7	50	7.96	0.68	190	63
300LS-3R3 (M,K)	3.3	50	7.96	0.75	180	53
300LS-3R9 (M,K)	3.9	50	7.96	0.81	160	45
300LS-4R7 (M,K)	4.7	50	7.96	0.89	160	40
300LS-5R6 (M,K)	5.6	50	7.96	0.98	150	35
300LS-6R8 (M,K)	6.8	50	7.96	1.10	150	30
300LS-8R2 (M,K)	8.2	50	7.96	1.20	150	26
300LS-100 (M,K)	10.0	50	7.96	1.29	145	22
300LS-120 K(J)	12.0	50	25.2	1.43	140	19
300LS-150 K(J)	15.0	50	25.2	1.56	130	17
300LS-180 K(J)	18.0	50	25.2	1.77	125	16
300LS-220 K(J)	22.0	50	25.2	1.99	115	14
300LS-270 K(J)	27.0	50	25.2	2.21	105	12
300LS-330 K(J)	33.0	50	25.2	2.38	100	12
300LS-390 K(J)	39.0	50	25.2	2.86	95	10
300LS-470 K(J)	47.0	50	25.2	3.19	85	10
300LS-560 K(J)	56.0	50	25.2	3.52	85	9.6
300LS-680 K(J)	68.0	50	25.2	3.92	75	8.7
300LS-820 K(J)	82.0	50	25.2	4.42	75	7.7

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 2. The rated DC current is which the Temperature rise by excitation DC current (According to MIL-C-15305)

TYPE 43FS

TOKO Part ¹ Number	Inductance ¹ (μ H)	Q (min.)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated DC Current ² (mA) max.	Self Resonant Frequency (MHz) min.
300LS-101 K(J)	100.0	50	2.52	4.97	70	6.9
300HS-121 K(J)	120.0	50	.796	4.24	70	6.5
300HS-151 K(J)	150.0	50	.796	4.83	65	5.8
300HS-181 K(J)	180.0	50	.796	5.58	60	5.3
300HS-221 K(J)	220.0	50	.796	6.13	60	4.8
300HS-271 K(J)	270.0	50	.796	7.12	55	4.5
300HS-331 K(J)	330.0	50	.796	8.10	50	4.0
300HS-391 K(J)	390.0	50	.796	10.40	50	3.4
300HS-471 K(J)	470.0	50	.796	11.40	45	3.1
300SS-561 K(J)	560.0	50	.796	12.80	45	2.02
300SS-681 K(J)	680.0	50	.796	14.60	40	1.93
300SS-821 K(J)	820.0	50	.796	16.50	40	1.78
300SS-102 K(J)	1000.0	50	.796	18.60	40	1.62

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 [Toko America Inc. Information](#)

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-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management