

CTSMDS4F

Series

From 0.10µH to 100,000µH



Not Shown at Actual Size

CHARACTERISTICS

Description: SMD shielded RF inductor.

Applications: Used for high reliability applications. Vital for telecommunication applications. Ideal for various RF applications.

Operating Temperature: -55°C to +125°C

Inductance Tolerance: ±5%, ±10%, ±20%

Testing: Inductance and Q tested on an HP4287A at specified frequency.

Packaging: Tape & Reel.

Rated Current: Based on the inductance change within 10% of initial value.

Incremental Current: DC current required to cause a maximum reduction of 5% in the inductance for nominal value of inductance measured with zero DC current.

Miscellaneous: **RoHS Compliant.**

Additional Information: Additional electrical & physical information available upon request.

Samples available. See website for ordering information.

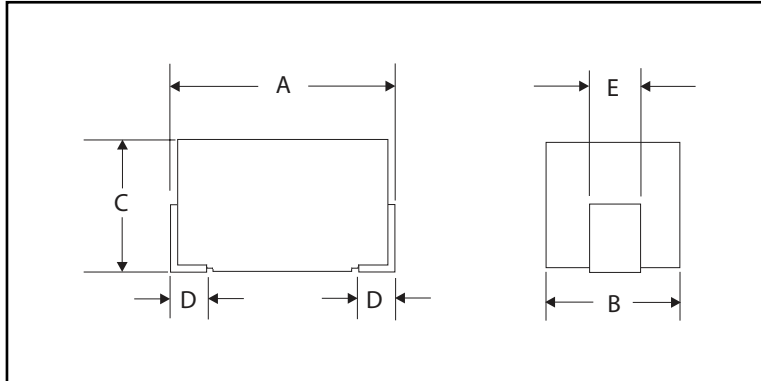
SPECIFICATIONS

Please specify tolerance code when ordering.
CTSMDS4F-R68_ ← J = ±5%, K = ±10%, M = ±20%

Part Number	Inductance (µH)	L Test Freq. (Hz)	Q Min.	SRF Min. (MHz)	DCR Max. (Ω)	Rated I Max. (mA)	INCR (mA)
CTSMDS4F-R10M	0.10	25M	50 @ 25MHz	400	.026	3000	3000
CTSMDS4F-R12M	0.12	25M	50 @ 25MHz	400	.029	2860	2860
CTSMDS4F-R15M	0.15	25M	50 @ 25MHz	400	.034	2600	2600
CTSMDS4F-R18M	0.18	25M	50 @ 25MHz	400	.044	2300	2300
CTSMDS4F-R22M	0.22	25M	50 @ 25MHz	400	.056	2050	2050
CTSMDS4F-R27M	0.27	25M	50 @ 25MHz	400	.090	1625	1625
CTSMDS4F-R33M	0.33	25M	47 @ 25MHz	325	.122	1400	1400
CTSMDS4F-R39M	0.39	25M	47 @ 25MHz	390	.161	1220	1220
CTSMDS4F-R47M	0.47	25M	47 @ 25MHz	264	.218	1060	1060
CTSMDS4F-R56M	0.56	25M	45 @ 25MHz	249	.290	900	900
CTSMDS4F-R68_	0.68	25M	43 @ 25MHz	221	.382	790	790
CTSMDS4F-R82_	0.82	25M	41 @ 25MHz	200	.450	725	725
CTSMDS4F-1R0_	1.0	25M	42 @ 25MHz	156	.054	2080	2080
CTSMDS4F-1R2_	1.2	7.9M	43 @ 7.9MHz	144	.070	1840	1840
CTSMDS4F-1R5_	1.5	7.9M	41 @ 7.9MHz	128	.096	1560	1560
CTSMDS4F-1R8_	1.8	7.9M	42 @ 7.9MHz	121	.107	1480	1480
CTSMDS4F-2R2_	2.2	7.9M	42 @ 7.9MHz	108	.142	1290	1290
CTSMDS4F-2R7_	2.7	7.9M	41 @ 7.9MHz	96	.184	1130	1130
CTSMDS4F-3R3_	3.3	7.9M	41 @ 7.9MHz	88	.260	950	950
CTSMDS4F-3R9_	3.9	7.9M	41 @ 7.9MHz	84	.354	815	815
CTSMDS4F-4R7_	4.7	7.9M	42 @ 7.9MHz	72	.168	710	710
CTSMDS4F-5R6_	5.6	7.9M	42 @ 7.9MHz	69	.511	680	680
CTSMDS4F-6R8_	6.8	7.9M	42 @ 7.9MHz	62	.750	560	560
CTSMDS4F-8R2_	8.2	7.9M	46 @ 7.9MHz	58	.828	535	535
CTSMDS4F-100_	10	7.9M	46 @ 7.9MHz	53	1.270	532	432
CTSMDS4F-120_	12	2.5M	50 @ 2.5MHz	47	1.760	368	368
CTSMDS4F-150_	15	2.5M	50 @ 2.5MHz	41	2.300	325	325
CTSMDS4F-180_	18	2.5M	50 @ 2.5MHz	43	.667	596	235
CTSMDS4F-220_	22	2.5M	50 @ 2.5MHz	38	.742	565	220
CTSMDS4F-270_	27	1.0k	50 @ 2.5MHz	36	.850	526	200
CTSMDS4F-330_	33	1.0k	50 @ 2.5MHz	33	.928	505	190
CTSMDS4F-390_	39	1.0k	50 @ 2.5MHz	29.4	1.280	429	180
CTSMDS4F-470_	47	1.0k	55 @ 2.5MHz	26.5	1.480	400	175
CTSMDS4F-560_	56	1.0k	55 @ 2.5MHz	25	1.640	380	160
CTSMDS4F-680_	68	1.0k	55 @ 2.5MHz	23	2.200	328	150
CTSMDS4F-820_	82	1.0k	55 @ 2.5MHz	14	1.960	349	140
CTSMDS4F-101_	100	1.0k	65 @ 2.5MHz	12	2.280	322	120
CTSMDS4F-121_	120	1.0k	65 @ 0.79MHz	11.2	2.450	311	95
CTSMDS4F-151_	150	1.0k	65 @ 0.79MHz	10.5	2.790	294	90
CTSMDS4F-181_	180	1.0k	65 @ 0.79MHz	10	3.080	277	85
CTSMDS4F-221_	220	1.0k	65 @ 0.79MHz	9.4	3.480	251	80
CTSMDS4F-271_	270	1.0k	65 @ 0.79MHz	8.0	4.550	231	70
CTSMDS4F-331_	330	1.0k	65 @ 0.79MHz	7.3	5.100	215	65
CTSMDS4F-391_	390	1.0k	65 @ 0.79MHz	6.9	5.620	205	60
CTSMDS4F-471_	470	1.0k	70 @ 0.79MHz	6.5	6.450	192	58
CTSMDS4F-561_	560	1.0k	70 @ 0.79MHz	6.0	8.000	174	55
CTSMDS4F-681_	680	1.0k	75 @ 0.79MHz	5.6	8.850	163	50
CTSMDS4F-821_	820	1.0k	70 @ 0.79MHz	4.8	10.400	151	45
CTSMDS4F-102_	1000	1.0k	65 @ 0.79MHz	4.5	12.100	139	40
CTSMDS4F-122_	1200	1.0k	70 @ 0.25MHz	2.6	15.1	125	35
CTSMDS4F-152_	1500	1.0k	70 @ 0.25MHz	2.5	16.8	119	33
CTSMDS4F-182_	1800	1.0k	70 @ 0.25MHz	2.3	19.1	111	30
CTSMDS4F-222_	2200	1.0k	70 @ 0.25MHz	2.2	22.0	103	27
CTSMDS4F-272_	2700	1.0k	70 @ 0.25MHz	2.1	25.1	97	25
CTSMDS4F-332_	3300	1.0k	70 @ 0.25MHz	2.0	33.3	85	22
CTSMDS4F-392_	3900	1.0k	70 @ 0.25MHz	1.8	36.8	80	20
CTSMDS4F-472_	4700	1.0k	70 @ 0.25MHz	1.7	51.2	68	19
CTSMDS4F-562_	5600	1.0k	70 @ 0.25MHz	1.6	54.6	66	17
CTSMDS4F-682_	6800	1.0k	70 @ 0.25MHz	1.5	62.0	62	16
CTSMDS4F-822_	8200	1.0k	70 @ 0.25MHz	1.4	86.6	52	15
CTSMDS4F-103_	10000	1.0k	70 @ 0.25MHz	1.3	93.1	50	14
CTSMDS4F-123_	12000	1.0k	50 @ .079MHz	.88	84.0	53	13
CTSMDS4F-153_	15000	1.0k	50 @ .079MHz	.78	97.0	49	12
CTSMDS4F-183_	18000	1.0k	50 @ .079MHz	.72	104	48	10
CTSMDS4F-223_	22000	1.0k	50 @ .079MHz	.57	145	40	9
CTSMDS4F-273_	27000	1.0k	50 @ .079MHz	.46	195	34	8
CTSMDS4F-333_	33000	1.0k	50 @ .079MHz	.42	222	32	7
CTSMDS4F-393_	39000	1.0k	50 @ .079MHz	.42	242	31	6
CTSMDS4F-473_	47000	1.0k	50 @ .079MHz	.37	317	27	5.5
CTSMDS4F-563_	56000	1.0k	50 @ .079MHz	.36	362	25	5
CTSMDS4F-683_	68000	1.0k	50 @ .079MHz	.35	410	24	4
CTSMDS4F-823_	82000	1.0k	50 @ .079MHz	.34	440	23	3.5
CTSMDS4F-104_	100000	1.0k	50 @ .079MHz	.32	484	22	3

PHYSICAL DIMENSIONS

Size	A	B	C	D	E
mm	12.4 - 13.2	5.8 - 6.3	5.3 - 5.8	1.27	1.4 - 2.4
inches	0.490 - 0.520	0.230 - 0.250	0.210 - 0.230	0.050	0.055 - 0.095



PAD LAYOUT

