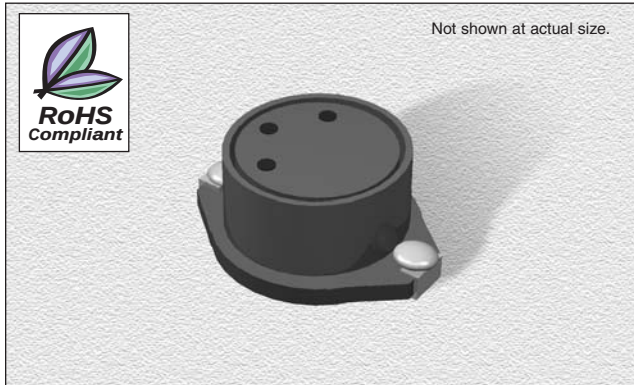


CTDS5022F Series

From 10 μH to 1,000 μH



CHARACTERISTICS

Description: SMD (shielded) power inductor

Applications: Ideal for high performance DC/DC converter applications, computers, LCD displays and telecommunication equipment. Especially those requiring shielding

Operating Temperature: -40°C to +85°C

ΔT : 40°C typically at I_{rms}

Inductance Tolerance: $\pm 20\%$

Inductance Drop: 10% typically at I_{sat}

Testing: Inductance and Q are tested on an HP4285A at 100 kHz

Packaging: Tape & Reel

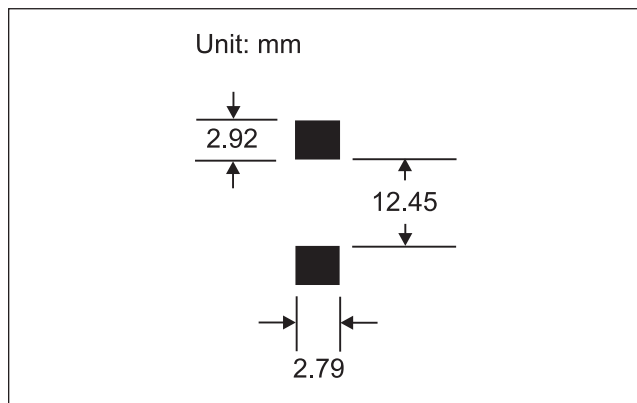
Marking: Color dots OR Inductance code

Miscellaneous: **RoHS Compliant.** Magnetically shielded

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

PAD LAYOUT



SPECIFICATIONS

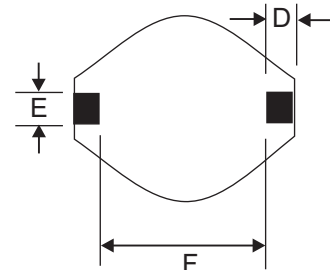
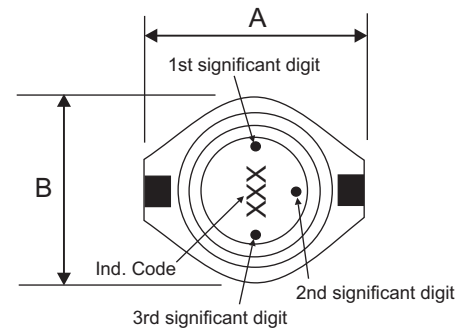
Parts are available in $\pm 20\%$ tolerance only.

Part Number	Inductance ($\mu\text{H} \pm 20\%$)	L Test Freq. (kHz)	Q Fact. Min.	Q Test Freq. (kHz)	SRF (MHz)	DCR Max. (Ω)	I_{sat} (A)	I_{rms} (A)
CTDS5022PF-103	10	100	40	100	24	.04	8.0	3.9
CTDS5022PF-153	15	100	40	100	16	.05	7.0	3.4
CTDS5022PF-223	22	100	40	100	14	.06	6.0	3.1
CTDS5022PF-333	33	100	40	100	11	.08	5.0	2.8
CTDS5022PF-473	47	100	40	100	8.0	.10	4.0	2.4
CTDS5022PF-683	68	100	40	100	7.0	.14	3.0	2.0
CTDS5022PF-104	100	100	40	100	5.5	.21	2.4	1.7
CTDS5022PF-154	150	100	50	100	4.8	.30	2.1	1.3
CTDS5022PF-224	220	100	50	100	4.0	.47	1.9	1.1
CTDS5022PF-334	330	100	50	100	3.0	.78	1.1	.86
CTDS5022PF-474	470	100	50	100	2.4	1.1	1.1	.73
CTDS5022PF-684	680	100	60	100	2.0	1.4	1.0	.64
CTDS5022PF-105	1000	100	60	100	1.0	2.0	0.8	.53

PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Max.	D	E	F
mm	18.54	15.24	7.62	2.54	2.54	12.7
inches	0.73	0.6	0.3	0.1	0.1	0.5

Parts will be marked with
Significant Digit Dots OR Inductance Code



01.12.10