Current Sense Transformers

Product Features

EE5.0 **EE12.6**

Characteristic	EE5.0	EE12.6
Sensed primary current	20 A	47 A
Isolation (hipot, 60 s)	500 Vrms	1500 Vrms
Primary DCR	0.70 mOhm (ref.)	0.36 mOhm (max.)
Ambient temperature	-40 to +125 deg C	-40 to +125 deg C
Core / weight	Ferrite / 0.4 g	Ferrite / 4.13 g





Electrical Characteristics @25℃:

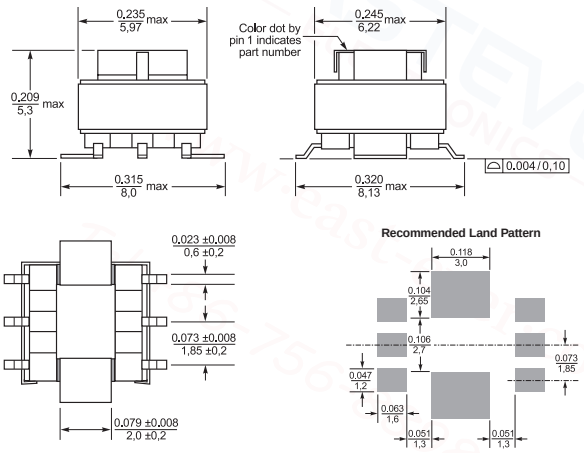
Part number	Turns pri : sec	L sec. (mH) [1]	DCR sec. max (Ohm)	Frequency (kHz)	Volt-time (V-us)	Iin (A)	RT (Ohm) [2]
EE5.0-020L	1:20	0.081	0.400	46 - >1000	10.8	20	1.0
EE5.0-030L	1:30	0.180	0.870	31 - >1000	16.2	20	1.5
EE5.0-040L	1:40	0.320	1.14	23 - >1000	21.6	20	2.0
EE5.0-050L	1:50	0.500	1.50	19 - >1000	27.0	20	2.5
EE5.0-060L	1:60	0.730	1.98	15 - >1000	32.4	20	3.0
EE5.0-070L	1:70	0.980	4.75	13 - >1000	37.8	20	3.5
EE5.0-100L	1:100	2.000	5.50	9 - >1000	54.0	20	5.0
EE5.0-125L	1:125	3.000	6.50	7 - >1000	67.5	20	6.3
EE12.6-020L	1:20	0.34	0.180	10 - >1000	50.8	47	0.5
EE12.6-030L	1:30	0.76	0.265	7 - >1000	76.2	47	0.8
EE12.6-040L	1:40	1.36	0.560	5 - >1000	101.6	47	1.0
EE12.6-050L	1:50	2.12	0.705	4 - >1000	127.0	47	1.3
EE12.6-060L	1:60	3.06	0.850	3 - >1000	152.4	47	1.5
EE12.6-070L	1:70	4.16	1.00	3 - >1000	177.8	47	1.8
EE12.6-080L	1:80	5.44	1.15	2 - >1000	203.2	47	2.0
EE12.6-100L	1:100	8.50	1.45	2 - >1000	254.0	47	2.5
EE12.6-125L	1:125	13.3	1.85	2 - >1000	317.5	47	3.1
EE12.6-150L	1:150	19.2	2.25	1 - >1000	381.0	47	3.8
EE12.6-200L	1:200	34.0	4.06	1 - >1000	508.0	47	5.0

[1] EE5.0: L min., 100 kHz / 0.1 Vrms; converted from uH. EE12.6: L +/-30%, 1 kHz / 0.1 Vrms / 0 Adc.

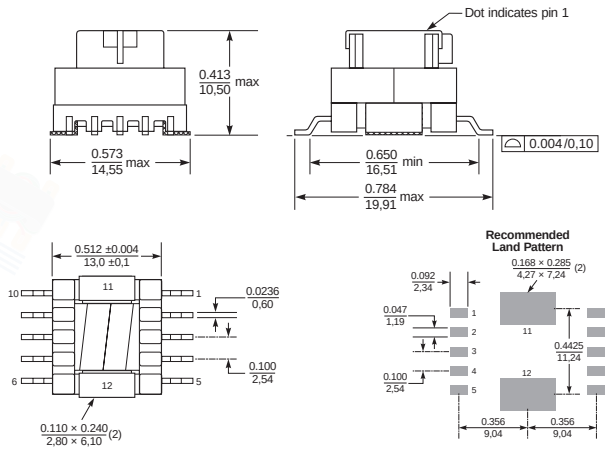
[2] RT for 1 V output: EE5.0 at 20 A; EE12.6 at 40 A. Current ratings: approx. 40 deg C rise from 25 deg C.

OUTLINE DIMENSIONS & RECOMMENDED LAND PATTERNS

EE5.0



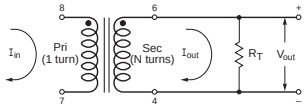
EE12.6



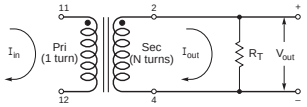
Dimensions: inches / mm as shown in the source drawings. Images are not to scale.

ELECTRICAL SCHEMATICS

EE5.0



EE12.6



Layout draft based on supplied reference datasheets. Verify specifications and drawings before publication.