

MCD1010180M-10

PHYSICAL DIMENSIONS:

A	10.00	±	0.20
B	10.00	±	0.20
C	14.00		Max.
D	5.00		Typ.
E	7.50		Typ.
F	1.50		Typ.

ELECTRICAL SPECIFICATION @ 25°C

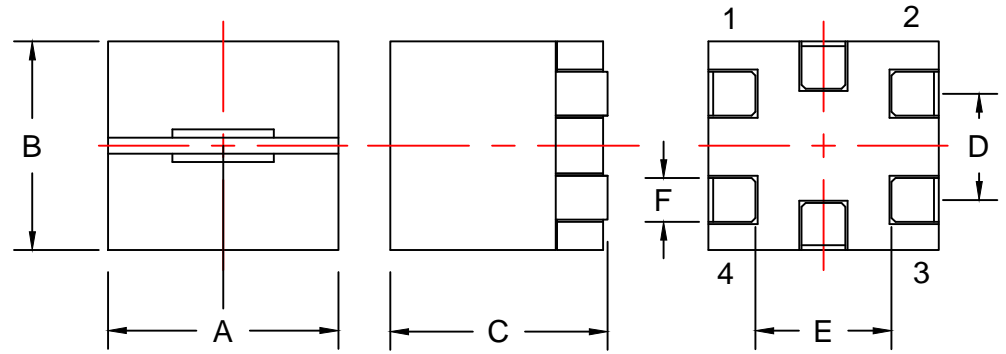
	Min	Norm	Max
INDUCTANCE (uH)			
L @ 100KHz/0.1V ± 20%	14.4	18.0	21.6
DCR (mΩ)		28.5	31.35

Saturation Current ³ Isat (A)	4.6
Temperature Rise ⁴ Current Irms (A)	4.5

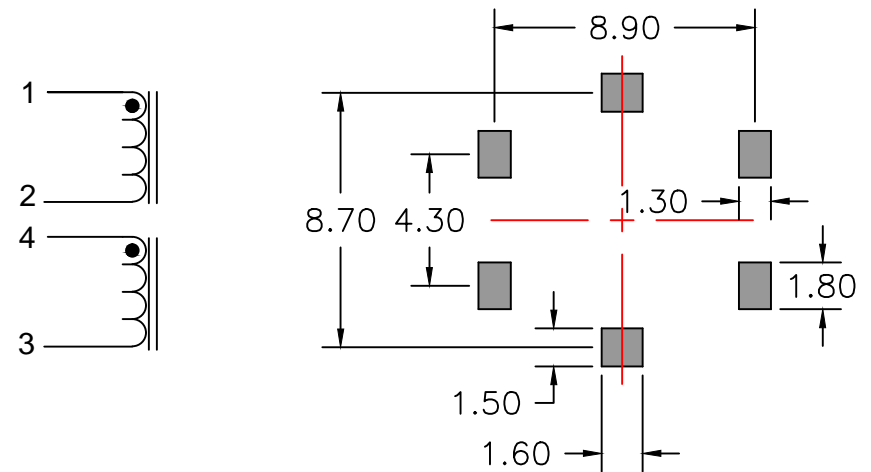
NOTES:

- OPERATION TEMPERATURE RANGE:
-40°C~+155°C (INCLUDING SELF-HEATING).
- STORAGE TEMPERATURE RANGE: +5°C~+40°C.
- DEFINITION OF SATURATION CURRENT (ISAT):
DC CURRENT AT WHICH THE INDUCTANCE DROPS TO 75%
NOM FROM ITS VALUE WITHOUT CURRENT.
- DEFINITION OF TEMPERATURE RISE CURRENT (IRMS):
DC CURRENT THAT CAUSES THE TEMPERATURE RISE
(ΔT ≤ 30°C) FROM 125°C AMBIENT.
- COPLANARITY: 0.15mm MAX

RoHS



LAND PATTERNS FOR REFLOW SOLDERING



DIMENSIONS ARE IN mm.				This print is the property of Laird Tech. and is loaned in confidence subject to return upon request and with the understanding that no copies shall be made without the written consent of Laird Tech. All rights to design or invention are reserved.		Laird	
PROJECT/PART NUMBER:				REV	PART TYPE:	DRAWN BY:	
MCD1010180M-10				A	POWER INDUCTOR	QIU	
DATE:				SCALE:	SHEET:		
5/24/16				NTS	1 of 1		
REV	DESCRIPTION	DATE	INT	CAD #	TOOL #		
A	ORIGINAL	5/24/16	QIU	MCD1010180M-10-A	-		