

# IDM Series

SMT Shielded Power Inductors – IDM10145, IDM12555, IDM12565, IDM12575

**TRIGON**  
COMPONENTS



## FEATURES

- Magnetically shielded construction.
- Compact and thin.
- Large Current and Low DCR..

## APPLICATION

- Computer, DC/DC converter, VCR camera, etc.

## ORDERING CODE

IDM10145 M 220 I  
(1) (2) (3) (4)

(1) SMT Shielded Power Inductors

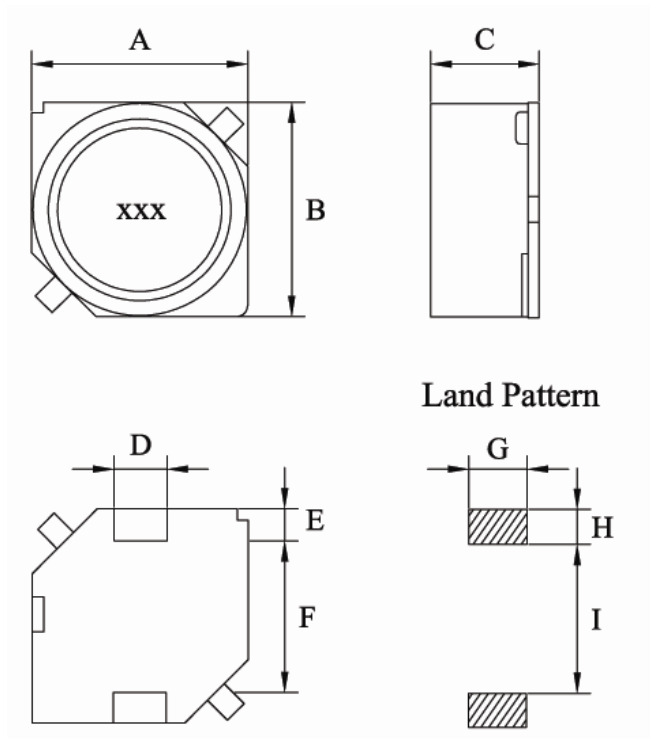
IDM10145, IDM12555  
IDM12565, IDM12575

(2) Tolerance Code:  
K: 10%, L: 15%, M: 20%  
N: 30%

(3) Inductance

(4) Package

## Configurations:



## Dimension (mm) for IDM6028

ITEM	A ±0.3	B ±0.3	C ±0.3	D ±0.1	E ±0.15	F ±0.2	G	H	I
IDM10145	10.1	10.1	4.5	3.0	2.0	6.0	3.2	2.5	5.6
IDM12555	12.5	12.5	5.5	3.0	2.0	8.3	3.2	2.5	8.0
IDM12565	12.5	12.5	6.5	3.0	2.0	8.3	3.2	2.5	8.0
IDM12575	12.5	12.5	7.5	3.0	2.0	8.3	3.2	2.5	8.0

※Design as Customer's Requested Specifications.

## Inductance Range

Item	μH
IDM10145	10.00 ~ 1500.00
IDM12555	6.00 ~ 1500.00
IDM12565	2.00 ~ 220.00
IDM12575	1.20 ~ 220.00

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SMT Shielded Power Inductors – IDM10145, IDM12555

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## Electrical Characteristics for IDM10145 Series

Part Number	Inductance ( $\mu$ H)	Test Freq. ( KHz )	DCR ( $\Omega$ ) ( $\pm 20\%$ )	IDC (A) (max)
IDM10145M100	10.00	1	0.0364	3.00
IDM10145M150	15.00	1	0.0472	2.40
IDM10145M220	22.00	1	0.0591	2.10
IDM10145M330	33.00	1	0.0815	1.60
IDM10145M470	47.00	1	0.100	1.40
IDM10145M680	68.00	1	0.140	1.20
IDM10145M101	100.00	1	0.200	1.00
IDM10145M151	150.00	1	0.350	0.79
IDM10145M221	220.00	1	0.470	0.65
IDM10145M331	330.00	1	0.680	0.54
IDM10145M471	470.00	1	1.030	0.47
IDM10145M681	680.00	1	1.600	0.38
IDM10145M102	1000.00	1	2.800	0.32
IDM10145M152	1500.00	1	3.400	0.22

※Test Freq. : 1KHz / 0.25V, ※Operating Temp. : -40°C ~ +85°C, ※Inductance drop=10% typ. at IDC

## Electrical Characteristics for IDM12555 Series

Part Number	Inductance ( $\mu$ H)	Test Freq. ( KHz )	DCR ( $\Omega$ ) ( $\pm 20\%$ )	IDC (A) (max)
IDM12555M6R0	6.00	1	0.0164	3.60
IDM12555M100	10.00	1	0.0215	3.40
IDM12555M150	15.00	1	0.0259	2.80
IDM12555M220	22.00	1	0.0338	2.30
IDM12555M330	33.00	1	0.0415	1.90
IDM12555M470	47.00	1	0.0618	1.60
IDM12555M680	68.00	1	0.0832	1.30
IDM12555M101	100.00	1	0.117	1.10
IDM12555M151	150.00	1	0.190	0.88
IDM12555M221	220.00	1	0.270	0.72
IDM12555M331	330.00	1	0.410	0.59
IDM12555M471	470.00	1	0.520	0.49
IDM12555M681	680.00	1	0.760	0.43
IDM12555M102	1000.00	1	1.120	0.34
IDM12555M152	1500.00	1	1.730	0.29

※Test Freq. : 1KHz / 0.25V, ※Operating Temp. : -40°C ~ +85°C, ※Inductance drop=10% typ. at IDC

# IDM Series

## SMT Shielded Power Inductors – IDM12565, IDM12575

**TRIGON**  
COMPONENTS

### Electrical Characteristics For IDM12565 Series

Part Number	Inductance ( $\mu$ H)	Test Freq. ( KHz )	DCR ( $\Omega$ ) ( $\pm$ 20%)	IDC (A) (max)
IDM12565N2R0	2.00	1	0.0117	10.00
IDM12565N4R2	4.20	1	0.0150	7.30
IDM12565N7R0	7.00	1	0.0177	5.70
IDM12565M100	10.00	1	0.0202	5.00
IDM12565M150	15.00	1	0.0237	4.20
IDM12565M220	22.00	1	0.0316	3.50
IDM12565M330	33.00	1	0.0406	2.80
IDM12565M470	47.00	1	0.0578	2.40
IDM12565M680	68.00	1	0.0787	2.00
IDM12565M101	100.00	1	0.123	1.60
IDM12565M221	220.00	1	0.273	1.00

※Test Freq. : 1KHz / 0.25V., ※Operating Temp. : -40°C ~ +85°C, ※Inductance drop=10% typ. at IDC.

### Electrical Characteristics for IDM12575 Series

Part Number	Inductance ( $\mu$ H)	Test Freq. ( KHz )	DCR ( $\Omega$ ) ( $\pm$ 20%)	IDC (A) (max)
IDM12575N1R2	1.20	1	0.0069	13.00
IDM12575N2R7	2.70	1	0.0094	10.00
IDM12575N3R9	3.90	1	0.0104	9.00
IDM12575N5R6	5.60	1	0.0116	7.80
IDM12575N6R8	6.80	1	0.0131	7.20
IDM12575M100	10.00	1	0.0156	5.50
IDM12575M150	15.00	1	0.0184	4.70
IDM12575M220	22.00	1	0.0263	4.00
IDM12575M330	33.00	1	0.0395	3.20
IDM12575M470	47.00	1	0.0528	2.70
IDM12575M680	68.00	1	0.0778	2.00
IDM12575M101	100.00	1	0.125	1.90
IDM12575M151	150.00	1	0.175	1.50
IDM12575M221	220.00	1	0.258	1.30

※Test Freq. : 1KHz / 0.25V., ※Operating Temp. : -40°C ~ +85°C, ※Inductance drop=10% typ. at IDC.