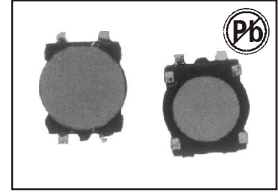


# SURFACE-MOUNT POWER INDUCTORS

## SMD4D11-4D13 SERIES



### FEATURES:

- Ferrite Core Structure
- Low DC Resistance
- Large current up to 0.95A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

### OPTIONS:

- Packaging: Tape & Reel is standard (Qty:2000pcs)  
Bulk packaging available for smaller quantities
- Tolerance: 10% and 5% is standard, tighter tolerances available

### COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

## ELECTRICAL CHARACTERISTICS:

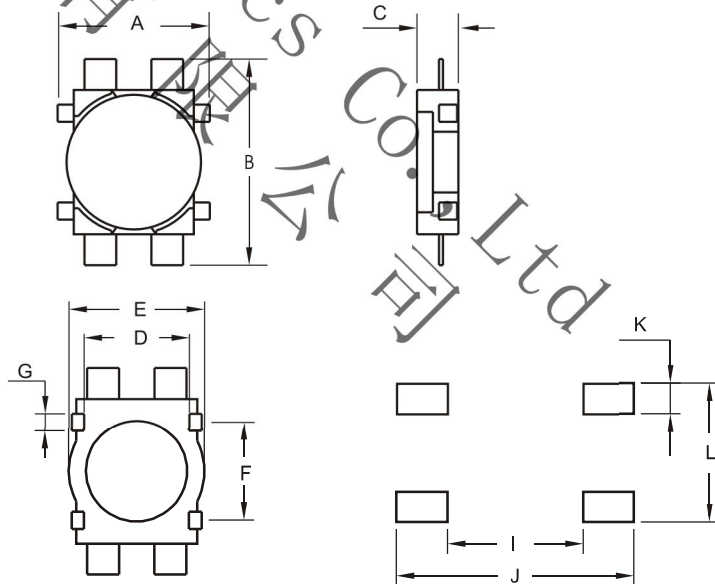
Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A	Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A
SMD4D11-2R2M	2.2	100	0.116	0.95	SMD4D13-2R2M	2.2	100	0.160	0.85
SMD4D11-3R3M	3.3	100	0.174	0.77	SMD4D13-3R3M	3.3	100	0.194	0.80
SMD4D11-4R7M	4.7	100	0.216	0.75	SMD4D13-4R7M	4.7	100	0.276	0.65
SMD4D11-6R8M	6.8	100	0.296	0.62	SMD4D13-6R8M	6.8	100	0.335	0.57
SMD4D11-100M	10	100	0.357	0.50	SMD4D13-120M	12	100	0.508	0.45
SMD4D11-150M	15	100	0.676	0.40	SMD4D13-180M	18	100	0.766	0.37
SMD4D11-220M	22	100	1.066	0.30	SMD4D13-330M	33	100	1.162	0.28
SMD4D11-330M	33	100	1.647	0.24	SMD4D13-470M	47	100	1.658	0.22
SMD4D11-470M	47	100	2.843	0.18	SMD4D13-680M	68	100	2.534	0.18
					SMD4D13-101M	100	100	3.304	0.17

Note: 1. K= ± 10%, M= ± 20%, N= ± 30%

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

- Inductance Testing: HP4284A, HP4285A or equivalent
- RDC: QuadTech 1880 Milliohm meter
- Q- HP4342A
- SRF-HP4191A or HP4194A
- Rated Current L value drop 10% typ. at  $I_{DC}$  against its initial value
- Temperature rise 40°C Max  
Reference ambient temperature
- Solderability: 75% of the lead wire  
Shall be covered
- Soldering Methods: Wave, Reflow
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength: 24.5N Min
- Moisture resistance:  
 $\Delta L/L \leq \pm 10\%$   $\Delta Q/Q \leq \pm 25\%$

Note: All specifications subject to change without notice.



DIMENSIONS IN:mm

Part number	A	B	C	D	E	F	G	I	J	K	L
SMD4D11	4.5Max	6.0Max	1.3Max	2.9	3.7	3.2	0.5	3.0	5.8	0.8	4.1
SMD4D13	4.4Max	5.8Max	1.45Max	2.9	3.7	3.7	0.5	2.5	5.3	0.8	4.0