

TSDR Series

SMD Shielded Tiny Power Inductor Size 8020



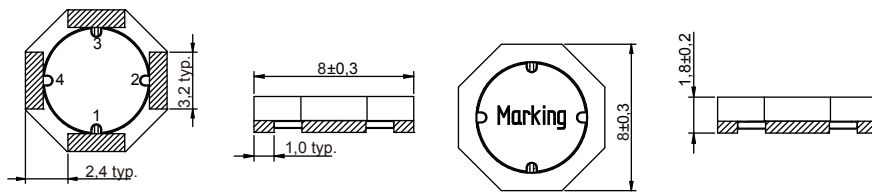
CHARACTERISTICS

- Low profile type
- Magnetically shielded
- Different sizes available
- Quantity: 550pcs

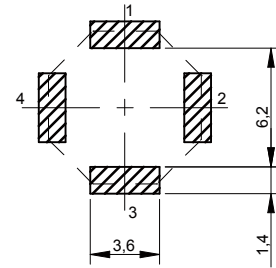
APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance (μH)	Tolerance	Temperature Rise Current (A)	Saturation Current (A)	DCR Typ. (mΩ)	DCR Max. (mΩ)	Core Material
TSDR8020-R18N	0.18	±30 %	8.5	9.0	3.51	4.5	NiZn
TSDR8020-R47N	0.47	±30 %	7.0	6.5	5.8	7.8	
TSDR8020-R82N	0.82	±30 %	6.2	5.5	8.5	11	
TSDR8020-1R2N	1.2	±30 %	4.8	4.2	12.5	16.5	
TSDR8020-2R2N	2.2	±30 %	4.6	3.2	17	21	
TSDR8020-3R3N	3.3	±30 %	3.2	2.55	30	36	
TSDR8020-4R7N	4.7	±30 %	3.0	2.2	37	45	
TSDR8020-5R6N	5.6	±30 %	2.6	2.0	47	56	
TSDR8020-6R8N	6.8	±30 %	2.4	1.8	56	68	
TSDR8020-8R2N	8.2	±30 %	2.2	1.7	70.5	85	
TSDR8020-100N	10	±30 %	2.0	1.55	78	94	
TSDR8020-150N	15	±30 %	1.65	1.25	117	140	
TSDR8020-180N	18	±30 %	1.5	1.1	135	162	
TSDR8020-220N	22	±30 %	1.3	1.0	166	200	

Operating Temperature: -40 °C up to +125 °C

Temperature rise current: The actual value of DC current when the temperature rise is ΔT40 °C

Saturation Current that will cause initial inductance to drop approximately 35%

Typical Electrical Characteristics:

