

# METAL WIRE-WOUND CHIP POWER INDUCTORS (MCOIL™ ME SERIES)



REFLOW

■ PARTS NUMBER

\* Operating Temp.: -40~+125°C (Including self-generated heat)

M	E	K	K	2	0	1	6	T	1	R	0	M	△	△
①	②	③	④	⑤	⑥	⑦	⑧							

△=Blank space

① Series name

Code	Series name
ME	Metal Wire-wound Chip Power Inductor

② Dimensions (T)

Code	Dimensions (T) [mm]
KK	1.0

③ Dimensions (L × W)

Code	Dimensions (L × W) [mm]
2016	2.0 × 1.6
2520	2.5 × 2.0

④ Packaging

Code	Packaging
T	Taping

⑤ Nominal inductance

Code (example)	Nominal inductance [μH]
R47	0.47
1R0	1.0
4R7	4.7

※R=Decimal point

⑥ Inductance tolerance

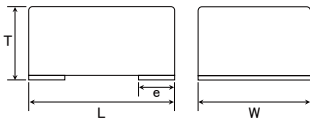
Code	Inductance tolerance
M	±20%

⑦ Special code

Code	Special code
△	Standard

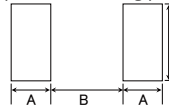
⑧ Internal code

■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Recommended Land Patterns  
Surface Mounting

- Mounting and soldering conditions should be checked beforehand.
- Applicable soldering process to these products is reflow soldering only.



Type	A	B	C
2016	0.7	0.8	1.8
2520	0.9	1.0	2.2

Unit: mm

Type	L	W	T	e	Standard quantity [pcs] Taping
MEKK2016	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
MEKK2520	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.0 max (0.039 max)	0.65±0.3 (0.026±0.012)	3000

Unit: mm (inch)

■ PARTS NUMBER

● MEKK2016 type [Thickness: 1.0mm max.]

Parts number	EHS	Nominal inductance [μH]	Inductance tolerance	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated current ※) [mA] (max.)		Measuring frequency [MHz]
						Saturation current Idc1	Temperature rise current Idc2	
MEKK2016TR47M	RoHS	0.47	±20%	-	0.030	4,500	4,300	1
MEKK2016TR68M	RoHS	0.68	±20%	-	0.052	3,800	3,300	1
MEKK2016T1R0M	RoHS	1.0	±20%	-	0.060	3,600	3,100	1
MEKK2016T2R2M	RoHS	2.2	±20%	-	0.150	2,400	1,900	1

● MEKK2520 type [Thickness: 1.0mm max.]

Parts number	EHS	Nominal inductance [μH]	Inductance tolerance	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated current ※) [mA] (max.)		Measuring frequency [MHz]
						Saturation current Idc1	Temperature rise current Idc2	
MEKK2520TR33M	RoHS	0.33	±20%	-	0.022	6,400	5,100	1
MEKK2520TR47M	RoHS	0.47	±20%	-	0.025	5,900	4,800	1
MEKK2520T1R0M	RoHS	1.0	±20%	-	0.053	4,300	3,300	1
MEKK2520T1R5M	RoHS	1.5	±20%	-	0.069	3,200	2,800	1
MEKK2520T2R2M	RoHS	2.2	±20%	-	0.097	3,100	2,400	1
MEKK2520T4R7M	RoHS	4.7	±20%	-	0.240	1,600	1,500	1

※) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%. (at 20°C)

※) The temperature rise current value (Idc2) is the DC current value having temperature increase up to 40°C. (at 20°C)

※) The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

※) Idc2 Measurement board data  
Material:FR4  
Board dimensions: 100 × 50 × 1.6t mm  
Pattern dimensions: 45 × 45 mm (Double side board)  
Pattern thickness: 70 μm

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (<http://www.ty-top.com/>).