

# PANASONIC SMD Choke Coils

RoHS Compliant This product is RoHS compliant.



## SMD POWER CHOKE COILS

### PCC-M125I Series

#### Features:

- High power (25A to 30A)
- Low loss ( $R_{DC}$ : 0.8m $\Omega$  to 1.1m $\Omega$ )
- Narrow  $R_{DC}$  tolerance ( $\pm 5\%$  to  $\pm 7\%$ )
- Low profile (14.5x12.5xH5.0mm)
- High frequency (up to 1MHz)
- Low buzz noise due to its gap-less structure

#### Applications:

- Servers, routers, DC-DC converters for driving CPUs
- Notebook PC power supply modules



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Fig.	Inductance @ 20°C				Idc (A)	DCR (m $\Omega$ )	Price Each			Reel Qty.	Price Per Piece
Mfr.	Mfr. Part No.		L1		L2 Reference				1	25	100		
			Value ( $\mu$ H)	Current (A)	Value ( $\mu$ H)	Current (A)							
667	—ETQ-P5LR50XFA	A	0.5	30	0.46	42	30	0.8	3.50	3.25	2.45	500	1.50
667	—ETQ-P5LR60XFA	A	0.6	30	0.54	42	27	1.1	3.50	3.25	2.45	500	1.50

### PCC-M0754M/M0854M/M1050M/M1054M Series

#### Features:

- High heat resistance: operation up to 150°C
- High reliability: high vibration tolerance in high temperature due to newly developed integral construction and severe condition of automotive application is cleared
- High bias current: excellent inductance stability by using ferrous alloy magnetic material
- Temp. stability: excellent inductance stability in wide temp. range
- Low buzz noise: new metal composite core technology
- High efficiency: low  $R_{DC}$  of winding and low eddy-current loss of the core

#### Applications:

- Noise filter for various drive circuitry requiring high temp. operation and peak current handling capability
- DC-DC converters

#### DIMENSIONS: mm

Series	L	W	H Max	a
M0754M	7.0 $\pm$ 0.4	7.5 $\pm$ 0.4	5.4	3.0 $\pm$ 0.3
M0854M	8.0 $\pm$ 0.4	8.5 $\pm$ 0.4	5.4	3.0 $\pm$ 0.3
M1050M	10.0 $\pm$ 0.4	10.7 $\pm$ 0.5	5.0	4.2 $\pm$ 0.3
M1054M	10.7 $\pm$ 0.5	10.0 $\pm$ 0.4	5.4	4.2 $\pm$ 0.3

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MOUSER STOCK NO.		Fig.	Series	Inductance @ 20°C		Idc	Rated Current	Refer. Current	DCR (m $\Omega$ )		Price Each			Reel Qty.	Price Per Piece
Mfr.	Mfr. Part No.			Value ( $\mu$ H)	Tol				Typ. (m $\Omega$ )	Tol	1	25	100		
667	—ETQP5M4R7YFM	B	M0754M	4.7	$\pm 20$	2.8	4.5	20.4	$\pm 10$	1.76	4.55	4.11	500	1.76	
667	—ETQ-P5M470YFM	B	M0754M	48	$\pm 20$	1	1.6	156	$\pm 10$	1.76	4.55	4.11	500	1.76	
667	—ETQ-P5M2R5YFK	B	M0854M	2.45	$\pm 20$	4.5	7.5	7.6	$\pm 10$	2.00	5.10	4.66	500	2.00	
667	—ETQ-P5M220YFK	B	M0854M	22	$\pm 20$	1.6	2.6	63	$\pm 10$	2.00	5.10	4.66	500	2.00	
667	—ETQP5M470YFK	B	M0854M	48	$\pm 20$	1.1	1.8	125	$\pm 10$	2.00	5.10	4.66	500	2.00	
667	—ETQP5M101YGC	B	M1050M	97	$\pm 20$	1	1.6	208	$\pm 10$	2.33	6.00	5.44	500	2.33	
667	—ETQ-P5M2R5YFC	B	M1054M	2.5	$\pm 20$	6	10	5.3	$\pm 10$	2.33	6.00	5.44	500	2.33	
667	—ETQP5M3R3YFC	B	M1054M	3.3	$\pm 20$	5.1	8.6	7.1	$\pm 10$	2.33	6.00	5.44	500	2.33	
667	—ETQP5M4R7YFC	B	M1054M	4.7	$\pm 20$	4.4	7.2	10.2	$\pm 10$	2.33	6.00	5.44	500	2.33	

## SMD CHIP CHOKE COILS

### ELL - VEG/VFG-C/VGG Series

#### Features:

- Magnetically shielded structure
- Low DC resistance and large current capability
- Shock resistant

#### Applications:

- DC-DC converter circuitry for computer peripherals and cellular phones
- Chopper circuit decoupling chokes for DC-DC converter circuitry

Type	H
ELLVEG	1.0 max.
ELLVFG-C	1.2 max.
ELLVGG	1.5 max.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Panasonic Part No.	Fig.	Value ( $\mu$ F)	Tol.	DCR (m $\Omega$ )	Isat (mA Max.)	I temp (mA Max.)	Price Each				Reel Qty.	Price Per Piece
								1	25	100	500		
<b>VEG Series</b>													
667-ELL-VEG1R0N	ELL-VEG1R0N	C	1.0	$\pm 30\%$	61	1900	1600	.41	.379	.285	.262	2000	.175
667-ELL-VEG2R2N	ELL-VEG2R2N	C	2.2	$\pm 30\%$	110	1100	1250	.41	.379	.285	.262	2000	.175
667-ELL-VEG3R3N	ELL-VEG3R3N	C	3.3	$\pm 30\%$	210	1000	820	.41	.379	.285	.262	2000	.175
667-ELL-VEG4R7N	ELL-VEG4R7N	C	4.7	$\pm 30\%$	240	750	770	.41	.379	.285	.262	2000	.175
667-ELL-VEG6R8N	ELL-VEG6R8N	C	6.8	$\pm 30\%$	350	580	650	.41	.379	.285	.262	2000	.175
667-ELL-VEG100M	ELL-VEG100M	C	10	$\pm 20\%$	480	520	600	.41	.379	.285	.262	2000	.175
667-ELL-VEG150M	ELL-VEG150M	C	15	$\pm 20\%$	710	430	490	.41	.379	.285	.262	2000	.175
667-ELL-VEG220M	ELL-VEG220M	C	22	$\pm 20\%$	1200	330	400	.41	.379	.285	.262	2000	.175
667-ELL-VEG330M	ELL-VEG330M	C	33	$\pm 20\%$	2300	260	290	.41	.379	.285	.262	2000	.175
667-ELL-VEG470M	ELL-VEG470M	C	47	$\pm 20\%$	2700	220	250	.41	.379	.285	.262	2000	.175
667-ELL-VEG680M	ELL-VEG680M	C	68	$\pm 20\%$	3500	180	220	.41	.379	.285	.262	2000	.175
<b>VFG Series</b>													
667-ELL-VFG1R0NC	ELL-VFG1R0NC	C	1.0	$\pm 30\%$	50	1500	1700	.45	.414	.312	.287	2000	.191
667-ELL-VFG1R5NC	ELL-VFG1R5NC	C	1.5	$\pm 30\%$	61	1300	1550	.45	.414	.312	.287	2000	.191
667-ELL-VFG2R2NC	ELL-VFG2R2NC	C	2.2	$\pm 30\%$	87	1100	1400	.45	.414	.312	.287	2000	.191
667-ELL-VFG3R3NC	ELL-VFG3R3NC	C	3.3	$\pm 30\%$	110	980	1250	.45	.414	.312	.287	2000	.191
667-ELL-VFG4R7NC	ELL-VFG4R7NC	C	4.7	$\pm 30\%$	150	740	1050	.45	.414	.312	.287	2000	.191
667-ELL-VFG100MC	ELL-VFG100MC	C	10	$\pm 20\%$	380	550	640	.45	.414	.312	.287	2000	.191
667-ELL-VFG150MC	ELL-VFG150MC	C	15	$\pm 20\%$	540	500	480	.45	.414	.312	.287	2000	.191
667-ELL-VFG220MC	ELL-VFG220MC	C	22	$\pm 20\%$	710	350	430	.45	.414	.312	.287	2000	.191
667-ELL-VFG330MC	ELL-VFG330MC	C	33	$\pm 20\%$	1160	280	330	.45	.414	.312	.287	2000	.191
<b>VGG Series</b>													
667-ELL-VGG1R0N	ELL-VGG1R0N	C	1.0	$\pm 30\%$	52	2200	1800	.40	.369	.278	.255	2000	.171
667-ELL-VGG1R6N	ELL-VGG1R6N	C	1.6	$\pm 30\%$	73	1800	1550	.40	.369	.278	.255	2000	.171
667-ELL-VGG2R2N	ELL-VGG2R2N	C	2.2	$\pm 30\%$	92	1600	1400	.40	.369	.278	.255	2000	.171
667-ELL-VGG3R3N	ELL-VGG3R3N	C	3.3	$\pm 30\%$	130	1350	1100	.40	.369	.278	.255	2000	.171
667-ELL-VGG3R9N	ELL-VGG3R9N	C	3.9	$\pm 30\%$	150	1300	1000	.40	.369	.278	.255	2000	.171
667-ELL-VGG4R7N	ELL-VGG4R7N	C	4.7	$\pm 30\%$	170	1200	980	.40	.369	.278	.255	2000	.171
667-ELL-VGG6R8N	ELL-VGG6R8N	C	6.8	$\pm 30\%$	230	1000	800	.40	.369	.278	.255	2000	.171
667-ELL-VGG100M	ELL-VGG100M	C	10	$\pm 20\%$	280	800	730	.40	.369	.278	.255	2000	.171
667-ELL-VGG120M	ELL-VGG120M	C	12	$\pm 20\%$	480	690	580	.40	.369	.278	.255	2000	.171
667-ELL-VGG150M	ELL-VGG150M	C	15	$\pm 20\%$	640	600	490	.40	.369	.278	.255	2000	.171
667-ELL-VGG220M	ELL-VGG220M	C	22	$\pm 20\%$	800	500	460	.40	.369	.278	.255	2000	.171
667-ELL-VGG330M	ELL-VGG330M	C	33	$\pm 20\%$	1330	450	340	.40	.369	.278	.255	2000	.171
667-ELL-VGG470M	ELL-VGG470M	C	47	$\pm 20\%$	2100	350	270	.40	.369	.278	.255	2000	.171

## SMD CHOKE COILS

### ELL-5PR Series

#### Features:

- Magnetically shielded structure
- Low DC resistance and large current capability

#### Applications:

- DC-DC converter circuitry for computer peripherals and cellular phones
- Chopper circuit decoupling chokes for DC-DC converter circuitry



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Panasonic Part No.	Fig.	Value ( $\mu$ F)	Tol.	DCR (m $\Omega$ )	Idc (mA Max.)	Price Each				Reel Qty.	Price Per Piece
							1	25	100	500		
667-ELL-5PRR47N	ELL-5PRR47N	D	0.47	$\pm 30\%$	12	5000	.51	.396	.36	.301	2000	.266
667-ELL-5PR1R2N	ELL-5PR1R2N	D	1.2	$\pm 30\%$	21	4200	.51	.396	.36	.301	2000	.266
667-ELL-5PR1R5N	ELL-5PR1R5N	D	1.5	$\pm 30\%$	25	4000	.51	.396	.36	.301	2000	.266
667-ELL-5PR2R2N	ELL-5PR2R2N	D	2.2	$\pm 30\%$	32	3200	.51	.396	.36	.301	2000	.266
667-ELL-5PR3R3N	ELL-5PR3R3N	D	3.3	$\pm 30\%$	37	2600	.51	.396	.36	.301	2000	.266
667-ELL-5PR4R7N	ELL-5PR4R7N	D	4.7	$\pm 30\%$	56	2200	.51	.396	.36	.301	2000	.266
667-ELL-5PR6R8N	ELL-5PR6R8N	D	6.8	$\pm 30\%$	85	1700	.51	.396	.36	.301	2000	.266
667-ELL-5PR100M	ELL-5PR100M	D	10	$\pm 20\%$	100	1400	.51	.396	.36	.301	2000	.266

**DIMENSIONS: mm**

**A**

**B**

**C**

**D**

**Recommended Land Pattern:**  
 PCC-M0754M Series  
 PCC-M0854M Series  
 PCC-M1050M and PCC-M1054M Series