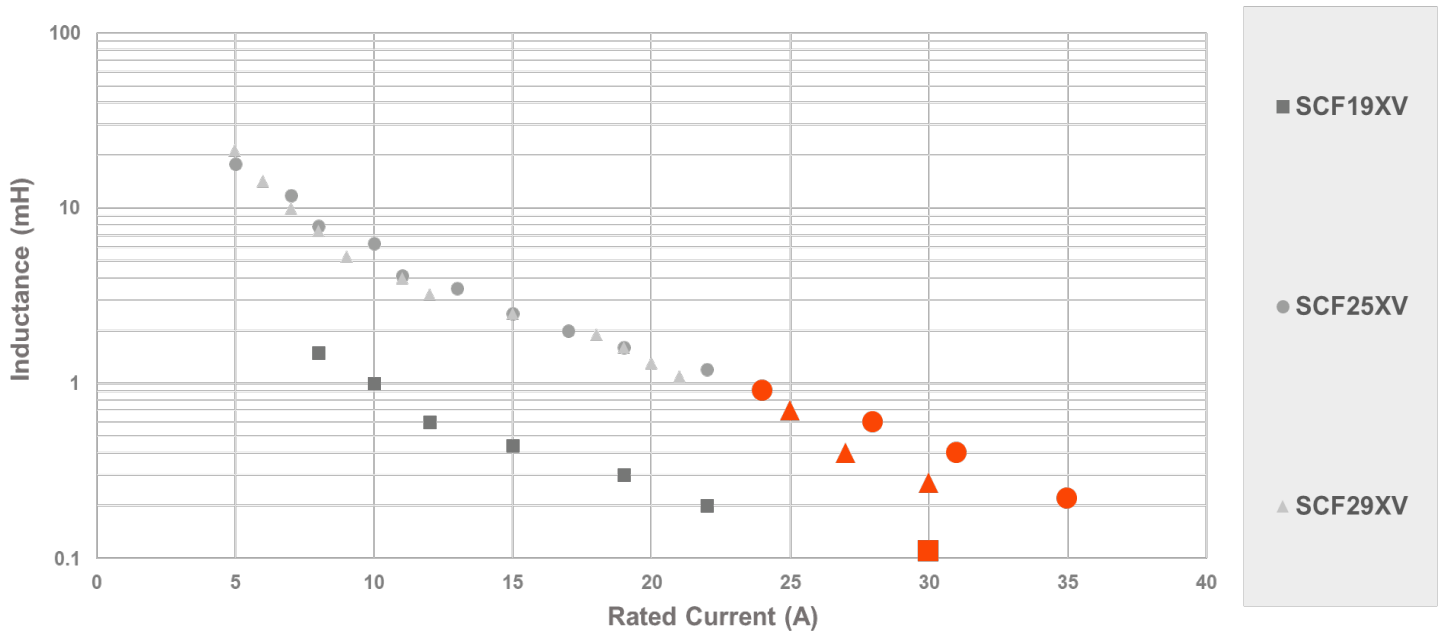


# SCF-XV Common Mode Coils, Nanocrystal Core Material, 24 - 35 A, Rated Voltage 1,000 V, AEC-Q200 Automotive Kit

## Sample Kit Contents

KEMET Part Number	Rated Voltage AC/DC (V)	Rated Current (A)	Inductance (mH) ±30%	DC Resistance/Line (mΩ) ±13%	Temperature Rise (K) Maximum	Quantity	Description
SCF19XV-300-1R9A003JV	1,000	30	0.110 +50%, -30%	0.747	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-240-2R0A006JV	1,000	24	0.900 +50%, -30%	1.840	50	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-280-2R1A005JV	1,000	28	0.600 +50%, -30%	1.390	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-310-2R3A004JV	1,000	31	0.400 +50%, -30%	0.950	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-350-2R4A003JV	1,000	35	0.220 +50%, -30%	0.650	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF29XV-250-2R2A008JV	1,000	25	0.700 +50%, -30%	1.680	40	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF29XV-270-2R3A006JV	1,000	27	0.400 +50%, -30%	1.190	35	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF29XV-300-2R4A005JV	1,000	30	0.270 +50%, -30%	0.930	35	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF19XV-300-1R9A003JH	1,000	30	0.033 ±30%	0.767	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-240-2R0A006JH	1,000	24	0.900 +50%, -30%	1.920	50	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-280-2R1A005JH	1,000	28	0.600 +50%, -30%	1.440	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-310-2R3A004JH	1,000	31	0.400 +50%, -30%	1.000	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF25XV-350-2R4A003JH	1,000	35	0.220 +50%, -30%	0.700	45	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF29XV-250-2R2A008JH	1,000	25	0.390 ±35%	1.680	40	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF29XV-270-2R3A006JH	1,000	27	0.220 ±35%	1.180	35	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A
SCF29XV-300-2R4A005JH	1,000	30	0.153 ±35%	0.920	35	1	Common Mode SCF-XV Coils, Nanocrystal Core, Automotive grade, 24 - 35 A

## Selection Guide for Nanocrystal SCF-XV Series 24-35 A



## Dimensions – Millimeters

Figure 1

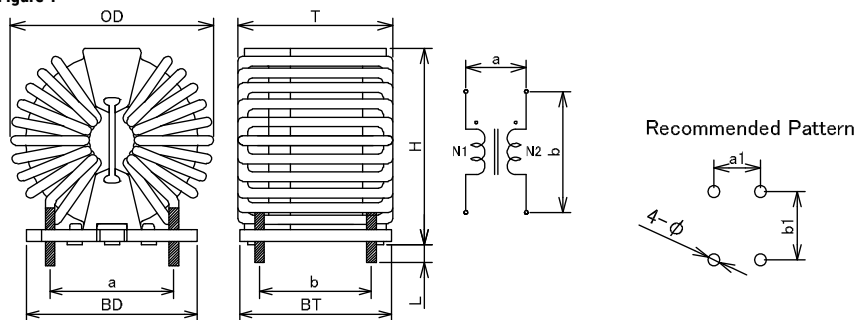
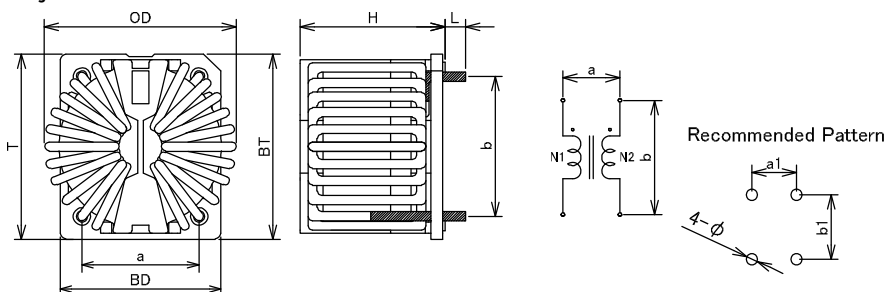


Figure 2



Part Name	Dimensions (mm)				Base Dimensions <sup>2</sup>		Pin Pitch <sup>3</sup>		Recommended Hole Pattern <sup>4</sup>			Figure
	OD (Maximum)	T (Maximum)	H <sup>1</sup>	L	BD	BT	a	b	a1	b1	φ	
SCF19XV-JV	27.0	18.4	26.50 +1.0/-0.6	3.50 ±0.5	24.20 ±0.5	17.85 ±0.5	17.0 ±0.5	12.0 ±0.5	17.0	12.0	1.4	Fig. 1
SCF25XV-JV	34.0	26.0	32.50 +1.0/-0.6	3.50 ±0.5	28.20 ±0.5	25.50 ±0.5	20.5 ±0.5	18.5 ±0.5	20.5	18.5	1.4	
SCF29XV-JV	39.0	21.4	36.70 +1.0/-0.6	3.50 ±0.5	30.20 ±0.5	20.85 ±0.5	22.5 ±0.5	13.5 ±0.5	22.5	13.5	1.5	
SCF19XV-JH	27.0	27.0	17.90 +1.0/-0.6	3.50 ±0.5	24.20 ±0.5	26.45 ±0.5	17.0 ±0.5	19.0 ±0.5	17.0	19.0	1.4	Fig. 2
SCF25XV-JH	34.0	33.0	25.50 +1.0/-0.6	3.50 ±0.5	28.20 ±0.5	32.50 ±0.5	20.5 ±0.5	24.5 ±0.5	20.5	24.5	1.5	
SCF29XV-JH	39.0	37.2	20.90 +1.0/-0.6	3.50 ±0.5	30.20 ±0.5	36.70 ±0.5	22.5 ±0.5	28.5 ±0.5	22.5	28.5	1.8	

<sup>1</sup> The lower limit dimension is not 100% inspected in production process.

<sup>2</sup> The terminal base dimension is not 100% inspected in production process.

<sup>3</sup> Inspection by using pin-pitch gauge.

<sup>4</sup> Inspection by using pin-pitch gauge as shown in Figure 2.

<sup>5</sup> Values are for reference only, not guaranteed.

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