

Product Selector Guide

Vishay Dale



TERMINATIONS		CORE TYPE	COIL CONSTRUCTION	PHYSICAL CONSTRUCTION	INDUCTOR MODELS	PICTURES	(INCHES)			INDUCTANCE Ze				
SMD	FERRITE	MULTILAYER	MONOLITHIC				L	W	H	μH				
					[Numbers in brackets indicate millimeters]			← 0	← 0.1	← 1	← 10	← 100		
				ILS-2515		.250 [6.35]	.150 [3.81]	.047 [1.19]			4.7		10	
				ILS-3825		.375 [9.53]	.250 [6.35]	0.047 [1.19]			4.7		10	
				ILSB-0603		0.063 [1.60]	0.032 [0.81]	0.032 [0.81]	0.047				4.7	
				ILSB-0805		0.079 [2.01]	0.049 [1.24]	.035 - .049 [.89 - 1.24]	0.047					33
				ILSB-1206		0.126 [3.20]	0.063 [1.60]	.024 - .043 [.61 - 1.1]	0.047					33
									Z @ 100MHz (Ohms)					
									← 1	← 10	← 100	← 1000	← 10000	
				ILBB-0603		0.063 [1.60]	0.032 [0.81]	0.032 [0.81]			30		1000	
	ILBB-0805		0.079 [2.01]	0.049 [1.24]	0.035 [0.89]			11		2000				
	ILB-1206		0.126 [3.20]	0.063 [1.60]	0.043 [1.09]			19	600					
	CERAMIC	LASER SPIRAL	COATED <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="5">nH</td>						nH					
									← 1	← 10	← 100	← 1000	← 10000	
				IMC-0402		0.040 [1.02]	0.020 [0.51]	0.020 [0.51]	1.0	47				
				IMC-0603		0.063 [1.60]	0.031 [0.79]	0.031 [0.79]	1.5		100			
				SIM-0204		0.142 [3.60]	0.06 [1.40]	0.06 [1.40]	1		100			
								nH						
								← 1	← 10	← 100	← 1000	← 10000		
		IFC-0603			0.063 [1.60]	0.031 [0.79]	0.020 [0.51]	1.5	18					
		IFC-0805			0.079 [2.01]	0.049 [1.24]	0.020 [0.51]	1.5	47					
IMC-0805				0.078 [1.98]	0.049 [1.24]	0.049 [1.24]	3.9				1K			
IMC-1008				.098 [2.5]	.079 [2.00]	.063 [1.60]	3.3				3300			



RATED CURRENT					DCR					SRF				
mA					Ohms					MHz				
← 0.1	← 1	← 10	← 100	← 1000	← 0.1	← 1	← 10	← 100	← 1000	← 0.1	← 1	← 10	← 100	← 1000
			500	500	.58	.95						15	20	
			1K	1.2K	.45	.65						9	13	
	15	50			.3	2.75					12			300
	5			300	.2	1.25					15			368
	5			300	.15	1.05					15			368
mA					Ohms									
← 0	← 1	← 10	← 100	← 1000	← 0.01	← 0.1	← 1	← 10	← 100	← 1	← 10	← 100	← 1000	← 10000
		50	400		0.09		.7			N/A				
		80	600		0.08		.6			N/A				
		200	500		0.05		.5			N/A				
mA					Ohms					MHz				
← 0.1	← 1	← 10	← 100	← 1000	← 0.01	← 0.1	← 1	← 10	← 100	← 1	← 10	← 100	← 1000	← 10000
		140	400		0.05		2.1					1800	6000	
		200	500		0.07		1.8					1300	6000	
0.4	2.5				0.09		1.7					2000	9800	
mA					Ohms					MHz				
← 1	← 10	← 100	← 1000	← 10000	← 0.01	← 0.1	← 1	← 10	← 100	← 1	← 10	← 100	← 1000	← 10000
		400	1000		0.06		0.75					2500	>6000	
		300	300		0.04		1.2					1050	>6000	
	120	540			0.08		2.98				80			6000
	280		600		.06		4.5				110			6000

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SMD		NON MAG., POWDERED IRON, FERRITE	WIREWOUND	MOLDED			L	W	H	μH						
							[Numbers in brackets indicate millimeters]			← .01	← 1	← 10	← 100	← 1000	← 10000	
					IMC-1210-100		0.126 [3.20]	0.098 [2.49]	0.087 [2.21]	.01	.10					
					IMC-1210		0.126 [3.20]	0.098 [2.49]	0.087 [2.21]	.01				100		
					ISC-1210		0.126 [3.20]	0.098 [2.49]	0.087 [2.21]	.01				220		
					IMC-1812		0.177 [4.50]	0.126 [3.20]	0.126 [3.20]	.01					1K	
					ISC-1812		0.177 [4.50]	0.126 [3.20]	0.126 [3.20]	.01					1K	
						IHSM-3825		0.440 [11.18]	0.25 [6.35]	0.22 [5.59]	1				1K	
					IHSM-4825		0.540 [13.72]	0.25 [6.35]	0.220 [5.59]	1				1K		
					IHSM-5832		0.640 [16.26]	0.320 [8.13]	0.280 [7.11]	1					4.7K*	
					IHSM-7832		0.840 [21.34]	0.320 [8.13]	0.280 [7.11]	1					18K*	

*Consult factory for higher values.



RATED CURRENT					DCR					SRF				
mA					Ohms					MHz				
← .1	← 1	← 10	← 100	← 1000	← 0.01	← 0.1	← 1	← 10	← 100	← 1	← 10	← 100	← 1000	← 10000
		450	450			0.13	0.44					700	2.5K	
		73		734		0.13		14		9			1K	
		80		810		0.1		12		6			1K	
		30		450	.02			40		2.5			1K	
		66		552		.23		16		2		460		
Amps					Ohms					MHz				
← .1	← 1	← 10	← 100	← 1000	← 0.01	← 0.1	← 1	← 10	← 100	← 1	← 10	← 100	← 1000	← 10000
.16		5.11			.015			12.97		N/A				
.24		8.6			.013			6.9		N/A				
.14		9			.01			23.1		N/A				
.11		9			.011			44.1		N/A				
← 0.1	← 1	← 10	← 100	← 1000	← 0.001	← 0.01	← .1	← 1	← 10	← 1	← 10	← 100	← 1000	← 10000
.43		7.54			.004			1.194		N/A				
.27		6.45			.004			1.837		N/A				
← .001	← 0.01	← 0.1	← 1	← 10	← 0.01	← 0.1	← 1	← 10	← 100					
	.06		1.01		0.06			18		N/A				
	.08		2.03		0.03			19.1		N/A				
	.07		2.29		0.03			24.1		N/A				
	.06		3.09		0.03			53.7		N/A				
	.06		3.21		0.02			46.2		N/A				
	.07		2.9		0.05			13.8		N/A				
		.3		6.8	.009		3			2		100		
		.56		8.6	.009		1.8			2		80		

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TERMINATIONS	CORE TYPE	COIL CONSTRUCTION	PHYSICAL CONSTRUCTION	INDUCTOR MODELS	PICTURES	(INCHES)			INDUCTANCE					
SMD	DRUM CORE		SHIELDED			L	W	H	nH					
						[Numbers in brackets indicate millimeters]			←.01	←.10	← 1	← 10	← 100	← 1000
				IDCS-2512		0.26 [6.60]	0.6 [15.24]	0.115 [2.92]		1				10000
				IDCS-5020		0.51 [12.70]	0.175 [4.45]	0.2 [4.90]		1			390	
				IDCS-7328		0.73 [18.54]	0.37 [10.00]	0.28 [7.11]			10			1000
				IDCP-1813		0.178 [4.50]	0.6 [15.24]	0.126 [3.20]		1			68	
			OPEN	IDCP-2218		0.221 [5.60]	0.178 [4.50]	0.177 [4.50]		3.3				220
				IDCP-3020		0.296 [7.50]		0.197 [5.0]			10			470
				IDCP-3114		0.307 [7.80]		0.138 [3.50]			10			330
				IDCP-3722		0.374 [9.50]		0.217 [5.50]			10			820
LEADED	NON MAGNETIC, POWERED IRON, FERRITE	WIREWOUND	MOLDED						μH					
									←.01	←.10	← 1	← 10	← 100	← 1000
				IM-1		0.210 [5.33]		0.086 [2.18]	.10				100	
				IM-2		0.260 [6.60]		0.105 [2.67]	.022					1K
				IM-4		0.385 [9.78]		0.165 [4.19]	.015					1.8K
				IM-6		0.450 [11.43]		0.200 [5.08]	.1					1K
				IM-8		0.570 [14.48]		0.225 [5.72]					1.1K	3.6K
				IM-9		0.570 [14.48]		0.260 [6.60]				68		150
				IM-10		0.750 [19.05]		0.250 [6.35]						3.9K 10K
				IM-6-38		0.450 [11.43]		0.200 [5.08]	.12				470	
				IM-6RFCS-40		0.440 [11.18]		0.188 [4.78]	0.1					1K
				IM-10-22		0.570 [14.48]		0.230 [5.84]		0.47				3.6K
				IM-10-28		0.570 [14.48]		2.90 [7.37]		1.2			120	



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RATED CURRENT					DCR					SRF					
Amps					Ohms					MHz					
← .1	← 1	← 10	← 100	← 1000	← 0.01	← 0.1	← 1	← 10	← 100	← .1	← 1	← 10	← 100	← 1000	← 10000
.02	3				.04			32.8					N/A		
.33	5				.021		1.4			2			100		
.53	3.9				.04		2.0			2			80		
.46	3.8				.033		1.12			.8			350		
.35	2				.06		1.57			4.2			140		
.34	2.3				.07		1.96			N/A					
.28	1.44				.08		1.5			N/A					
.24	2.6				.06		2.55			N/A					
mA					Ohms					MHz					
← .1	← 1	← 10	← 100	← 1000	← 0.01	← 0.1	← 1	← 10	← 100	← .1	← 1	← 10	← 100	← 1000	← 10000
		52		895	0.13			17.5			9.5			680	
		28		2.4K	0.025			72			3.4			900	
		56		2.45K	0.03			56.7		1.6				525	
		78		3.6K	0.02			16.5		2.8				510	
		57	78					21	40	1.5	2.8				
			132	168			3.3	5.3			8.3		43		
		47	61					44	72	.95	1.45				
		185		2.38K	0.024		4.5			2.1				360	
		104		4K	0.02			16.5		2.2				400	
		57		1.97K	0.06			40		1.5				300	
			195	2.4K	0.075		4.1				10		170		

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						L	W	H	μ H					
						[Numbers in brackets indicate millimeters]			$\leftarrow$.01	$\leftarrow$.10	$\leftarrow$ 1	$\leftarrow$ 10	$\leftarrow$ 100	$\leftarrow$ 1000
LEADED	NON MAGNETIC, POWERED IRON, FERRITE	WIREWOUND	MOLDED	IM-10-31		0.570 [14.48]		0.320 [8.13]					180	390
				IM-10-37		0.635 [16.13]		0.385 [9.78]					470	1K
				IM-10-46		0.697 [17.70]		0.478 [12.14]					1.5K	10K
				IM-10RFCL-12		0.900 [22.86]		0.310 [7.87]		1				10K
				IM-10RFCM-13		0.600 [15.24]		0.250 [6.35]		1				2.2K
				IM-2A-ER (E-Rel)		0.260 [5.08]		0.105 [2.67]		1			27	
			MOLDED E-REL	IM-4X-ER (E-Rel)		0.385 [9.78]		0.157 [3.99]	0.15				33	
				IM-6X-ER (E-Rel)		0.450 [11.43]		0.200 [5.08]	0.15				27	
			SHIELDED-MOLDED/MOLDED E-REL						μ H					
									$\leftarrow$.1	$\leftarrow$ 1	$\leftarrow$ 10	$\leftarrow$ 100	$\leftarrow$ 1000	$\leftarrow$ 10000
				IMS-2WWD-40		0.335 [8.51]		0.133 [3.38]	.1				1K	
				IMS- 2SWWD-30		0.395 [10.03]		0.136 [3.45]	.1				1.8K	
				IMS-2		0.260 [6.60]		0.105 [2.67]	.1				560	
				IMS-5		0.430 [10.92]		0.172 [4.37]	.1					100K
				IMS-5WD-40		0.450 [11.43]		0.164 [4.166]	.1					5.6K
				IMS-5SWD-65		0.415 [10.54]		0.167 [4.24]	.1					5.6K
				IMS-5X-ER (E-Rel)		0.430 [10.92]		0.172 [4.37]	.1		12			
			ROLL COATED	IR-2		0.330 [8.38]		0.120 [3.05]	.1				1K	
				IR-4		0.440 [11.18]		0.180 [4.57]	.15				1.8K	
				IRF-1		0.330 [8.38]		0.120 [3.15]	.1				1K	
				IRF-3		0.410 [10.41]		0.165 [4.19]	.22				1K	



RATED CURRENT					DCR					SRF					
mA					Ohms					MHz					
← 1	← 10	← 100	← 1000	← 10000	← 0.01	← 0.1	← 1	← 10	← 100	← .1	← 1	← 10	← 100	← 1000	← 10000
		118	148				5.5	8.7			3.9	6			
	95	125					9	14.5			2.7	3.7			
	47	84					22	70		.8	2.2				
	80		4K		0.03			80		0.45			136		
	100		2.7K		0.04			30		1.6			136		
		385	1.35K		0.08	1						230	680		
	165		2.45K		0.03		3				19		525		
	205		2.9K		0.03		2.75					22	510		
mA					Ohms					MHz					
← 1	← 10	← 100	← 1000	← 10000	← 0.01	← 0.1	← 1	← 10	← 100	← .01	← .1	← 1	← 10	← 100	
	80		1.72K		0.112			52			4.5		400		
	44		1.038K			0.087		33			2.6		480		
	40		670		0.1			28			7		490		
11			1.79K		0.025			678		0.11			250		
	56		4K		0.02			104		0.65			400		
	56		2.9K		0.025			98.9		0.73			250		
	200		1.79K		0.025	2						44	250		
	28		1.35K		0.08			72			3.4		680		
	56		2.45K		0.03			56.7			1.6		525		
	60		1.35K		0.06			26			1.4		400		
	100		1.4K		0.1			14			1.4		380		

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TERMINATIONS		CORE TYPE	COIL CONSTRUCTION	PHYSICAL CONSTRUCTION	INDUCTOR MODELS	PICTURES	(INCHES)			INDUCTANCE					
		FERRITE	WIREWOUND	ROLL COATED			L	W	H	μH					
					[Numbers in brackets indicate millimeters]			← .1	← 1	← 10	← 100	← 1000	← 10000		
IRF-46		0.551 [14.00]				0.118 [3.00]					1K		39K		
IRF-36		0.551 [14.00]			0.157 [3.99]	0.157 [3.9878]	0.1					1K			
IRF-24		0.394 [10.01]			0.118 [3.00]	0.118 [3.00]	0.1					1K			
SLEEVED	IHD-1			0.700 [17.78]		0.270 [6.86]	1						18K		
	IHD-3			0.900 [22.86]		0.460 [11.68]		3.9					100K		
	IHA			.8 - 1.3 [20.3 - 33]	[20.3 - 33]	.475 - .7 [12.1 - 17.8]		5					1K		
MISC	IH (Sleeved)			.875 - 1.625 [22.2 - 41.2]		6 - 1.0 [15.2 - 25.4]		5				250			
	IHM-2 (Molded Tip)			1.0 [25.4]	0.515 [13.08]	0.56 [14.22]	1						15K		
	IHB (Open)			.66 - 2.0 [16.8 - 50.8]		.84 - 1.5 [21.3 - 38.1]	1						47K		
	IHV (Sleeved)			2.45 - 2.55 [62.2 - 64.8]		1.02 - 1.92 [25.9 - 48.8]			24			500			
OPEN	TJ - 3, -4, -5, -6, -7, -8, -9		.65 - 2.72 [16.5 - 69.1]	.3 - 1.42 [7.6 - 36.1]	.65 - 2.72 [16.5 - 69.1]	1.2						5.6K			
DIP/ENCAP							mH								
	TE & TD		.437 - 1.32 [11.1 - 33.5]	.25 - .725 [6.4 - 18.4]	.437 - 1.32 [11.1 - 33.5]	0.05						4K			



RATED CURRENT					DCR					SRF					
mA					Ohms					MHz					
← 1	← 10	← 100	← 1000	← 10000	← 0.01	← 0.1	← 1	← 10	← 100	← .1	← 1	← 10	← 100	← 1000	
	25		200				8		270	.2	1.7				
	100			1750	0.15			17.4		1.4				320	
	60		700		0.085			30		1.15				280	
AMPS															
← 0.01	← 0.1	← 1	← 10	← 1000	← .001	← .01	← .1	← 1	← 10						
0.08			5.3		0.009				40	NA					
0.07			4		0.007				76	NA					
1.4			9.3		0.01		60			NA					
AMPS					Ohms					MHz					
← 0.01	← 0.1	← 1	← 10	← 100	← .001	← .01	← .1	← 1	← 10	← .001	← .01	← .1	← 1	← 10	← 100
		5		24	0.008		.09			NA					
0.26				17.8	0.005				21.9	NA					
	0.8			35		0.002			6.19	NA					
			15	60	.0025		0.05					.8		5.7	
mA					Ohms					MHz					
← 1	← 10	← 100	← 1000	← 10000	← .001	← .01	← .1	← 1	← 10	← .001	← .01	← .1	← 1	← 10	← 100
		141		2.5K		0.03			12			2.35			250
		141		1.51K		0.03			12			1.9			200
	13			1.51K		0.03			420		.136				250
AMPS															
← 0.01	← 0.1	← 1	← 10	← 100											
.5			20.0		0.004			1.476		NA					
					← .01	← 1	← 10	← 100	← 1000	← .001	← .01	← .1	← 1	← 10	← 100
NA					0.54				2.7K	0.008				10	