



SMD and DIL • 6

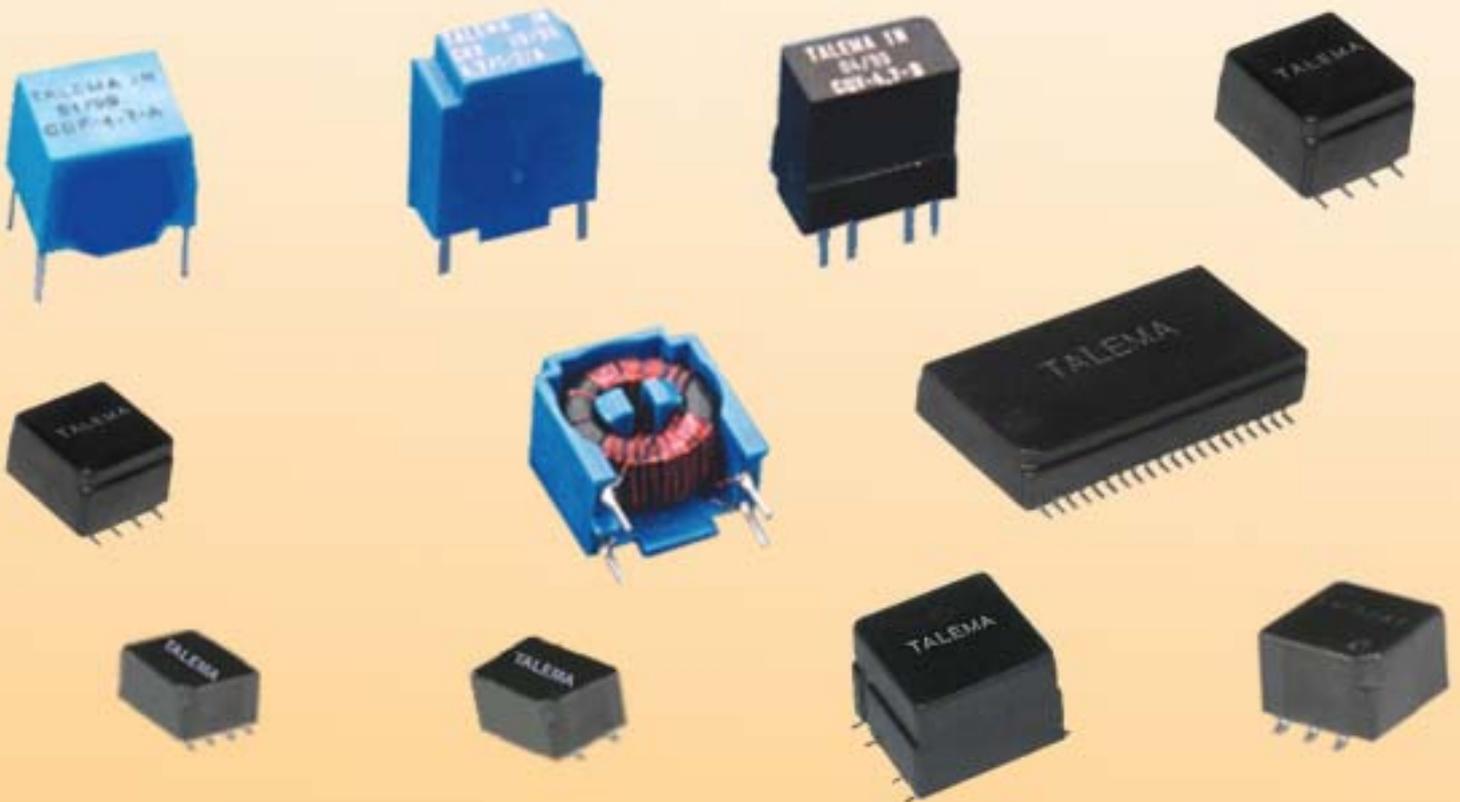
EMI Noise Suppression •

Data and Signal Line Filters •

Common Mode Interface Chokes •

SECTION 6

Current Compensated EMI Noise Suppression Chokes



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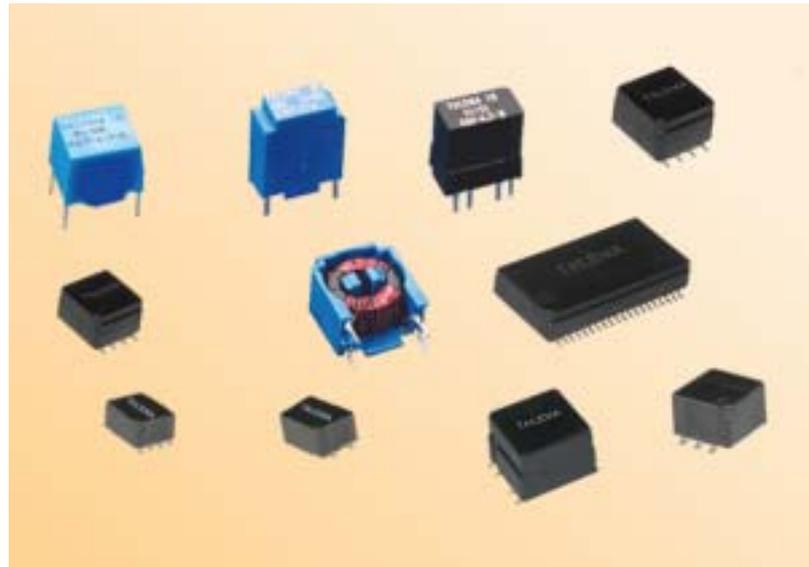
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Common Mode Interface Chokes - DIL and SMD

Current compensated EMI noise suppression chokes for data and signal line filtering

Talema manufactures a comprehensive range of common mode noise suppression chokes designed for interfacing and reduction of electromagnetic interference (EMI). These chokes provide both differential and common mode noise attenuation while allowing the signal to pass through virtually undistorted. The chokes are available in sizes ranging from standard to ultra miniature in both DIL and SMD styles and offer compatibility with all common footprints. The quick reference chart shown below provides a quick overview of choices available from the broad selection being offered by Talema.



DIL and SMD Common Mode Interface Chokes

Series	Inductance Range	Cores per Package	Windings per Core	Mounting Style	No. Contacts & Pitch	Max. Board Area W x L x Ht (mm)	Data Sheet Page
CMJ-2-XXX	5µH - 20mH	1	2	"J" Lead SMD	4 x 2.54	9.0 x 6.0 x 4.7	3
CMJ-4-XXX	5µH - 12mH		4		8 x 1.27		
CCJ-2-XXX	26µH - 70mH	1	2	"J" Lead SMD	8 x 2.54	10.0 x 14.0 x 7.6	4
CCJ-4-XXX	26µH - 58mH	1	4				
CCJ-4-XXXC	25µH - 100µH	2	2				
CFJ-3-XXXXA	24µH - 4.7mH	1	3	"J" Lead SMD	6 x 2.54	9.0 x 7.7 x 6.0	5
CFJ-4-XXXXA	33µH - 4.7mH	1	4		8 x 2.54	9.0 x 9.6 x 6.0	
CFJ-4-XXXXB	24µH - 100µH	2	2		8 x 2.54	9.0 x 9.6 x 6.0	
CKV-XXX	120µH - 68mH	1	2	Through Hole	4 x 2.54	7.4 x 15.2 x 17.6	6 - 7
CDF-XXX	1.0mH - 68mH	1	2	DIL	10 x 2.54	14.0 x 12.5 x 11.0	
CDV-XXX				"J" Lead SMD	8 x 2.54	17.0 x 12.6 x 8.0	
CDJ-XXX							
CQF-XXX	1.0mH - 90mH	1	4	DIL	10 x 2.54	12.5 x 14.0 x 11.0	
CQV-XXX				"J" Lead SMD	8 x 2.54	9.0 x 14.0 x 14.5	
CQJ-XXX				"J" Lead SMD	8 x 2.54	17.0 x 12.6 x 8.0	
CUJ-XXX-16E	24µH - 4.7mH	2	2	"J" Lead SMD	16 x 1.27	9.0 x 12.8 x 5.8	8
CUJ-XXX-16C	24µH - 4.7mH	2	3				
CUJ-XXX-16D	24µH - 4.7mH	3	2				
CUJ-XXX-16A	24µH - 4.7mH	2	4				
CUJ-XXX-16B	24µH - 100µH	4	2				
COJ-16-XXX	24µH - 5.0mH	8	2	"J" Lead SMD	40 x 1.27	16.0 x 28.6 x 5.8	9
Data Line Filters		2 to 16 Data Lines		"J" Lead SMD		Various	10 - 11

Visit our web site <http://www.talema-nuvotem.com> to obtain data sheets or "Current Compensated EMI Noise Suppression Chokes" brochure.



SMD Data and Signal Line Filter Chokes

Features

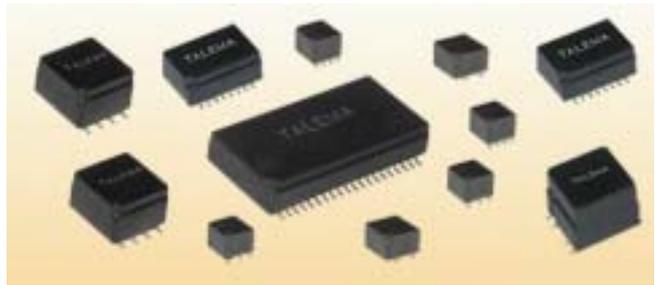
- EMI noise suppression for data and signal line filtering
- Miniature, low cost SMD common mode chokes are designed for pick and place compatibility and provide reliable coplanarity
- High attenuation over a wide frequency range
- Manufactured in ISO-9001 approved Talema facility
- Other inductance values available upon request
- Parts shown below meet all popular footprints

Electrical Specifications

Ratings @ 25°C ambient

Operating temperature: 0 to 70°C

Storage temperature: -25° to +105°C



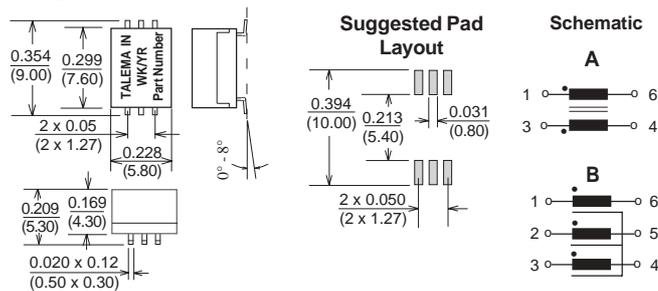
Test voltage between windings: 500 Vrms

Test frequency: Inductance measured @ 100kHz/20 mVrms

Miniature Common Mode Chokes for Data and Signal Line EMI suppression

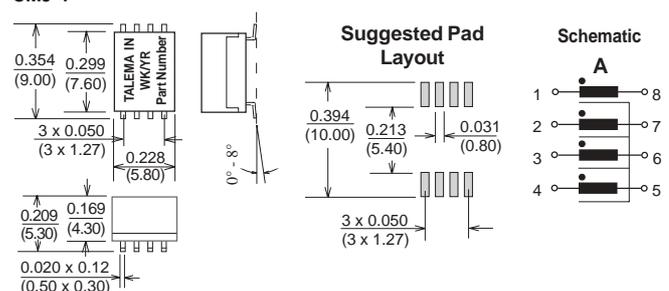
Part Number	OCL (μH) ±30%	I _N (mA)	DCR (mOhms)	Number of Coils	Windings per Coil	Schematic	Part Number	OCL (μH) ±30%	I _N (mA)	DCR (mOhms)	Number of Coils	Windings per Coil	Schematic
Two Data Lines							Four Data Lines						
CMJ-2-110	11	500	30	1	2	A	CFJ-4-240B	24	550	80	2	2	B
CMJ-2-220	22	500	45	1	2	A	CFJ-4-330A	33	550	65	1	4	A
CMJ-2-470	47	500	65	1	2	A	CFJ-4-470A	47	540	80	1	4	A
CMJ-2-101	100	500	95	1	2	A	CFJ-4-471A	470	450	65	1	4	A
CMJ-2-471	470	500	55	1	2	A	CFJ-4-472A	4700	220	430	1	4	A
CMJ-2-102	1000	500	80	1	2	A	CCJ-4-260B	26	600	65	1	4	B
CMJ-2-222	2200	400	120	1	2	A	CCJ-4-101B	100	400	130	1	4	B
CMJ-2-472	4700	200	310	1	2	A	CCJ-4-101C	100	450	220	2	2	C
CFJ-3-470B	47	850	60	1	2	B	CCJ-4-221B	220	400	190	1	4	B
CCJ-2-152	1500	550	100	1	2	A	CCJ-4-471B	470	400	120	1	4	B
CCJ-2-502	5000	500	180	1	2	A	CCJ-4-152B	1500	350	120	1	4	B
CCJ-2-123	12000	400	270	1	2	A	CCJ-4-502B	5000	330	220	1	4	B
CCJ-2-283	28000	270	520	1	2	A	CCJ-4-123B	12000	170	770	1	4	B
CCJ-2-503	50000	200	970	1	2	A	CCJ-4-583B	58000	90	2350	1	4	B
CCJ-2-703	70000	170	1490	1	2	A	CMB-4-502	5000	150	470	1	B	A
CDJ-1.7-A	1700	550	200	1	2	A	CMT-4-502	5000	150	470	1	B	A
CDJ-12-A	12000	300	680	1	2	A	CQJ-360B	36	600	100	1	4	B
CDJ-28-A	28000	300	1020	1	2	A	CQJ-5.0-B	5000	300	450	1	4	B
CDJ-50-A	50000	300	1800	1	2	A	CQJ-12-B	12000	250	1120	1	4	B
CDJ-70-A	70000	300	2150	1	2	A	CQJ-58-B	58000	200	2400	1	4	B
Three Data Lines							Six Data Lines						
CMJ-3-680	68	400	110	1	3	B	CUJ-240-16C	24	650	45	2	3	C
CFJ-3-240A	24	1000	45	1	3	A	CUJ-680-16C	68	450	110	2	3	C
CFJ-3-102A	1000	700	70	1	3	A	CUJ-240-16D	24	600	75	3	2	D
CFJ-3-222A	2200	600	125	1	3	A	CUJ-680-16D	68	450	135	3	2	D
CFJ-3-472A	4700	350	340	1	3	A	Eight Data Lines						
Four Data Lines							Sixteen Data Lines						
CMJ-4-240	24	500	65	1	4	A	COJ-16-470	47	300	200	8	2	--
CMJ-4-330	33	500	75	1	4	A	COJ-16-502	5000	150	400	8	2	--
CMJ-4-470	47	500	90	1	4	A							
CMJ-4-680	68	500	140	1	4	A							
CMJ-4-471	470	500	80	1	4	A							
CMJ-4-152	1500	400	220	1	4	A							
CMJ-4-472	4700	200	430	1	4	A							

CMJ-2 & 3



Note: Terminals 2 and 5 are not included on the CMJ-2

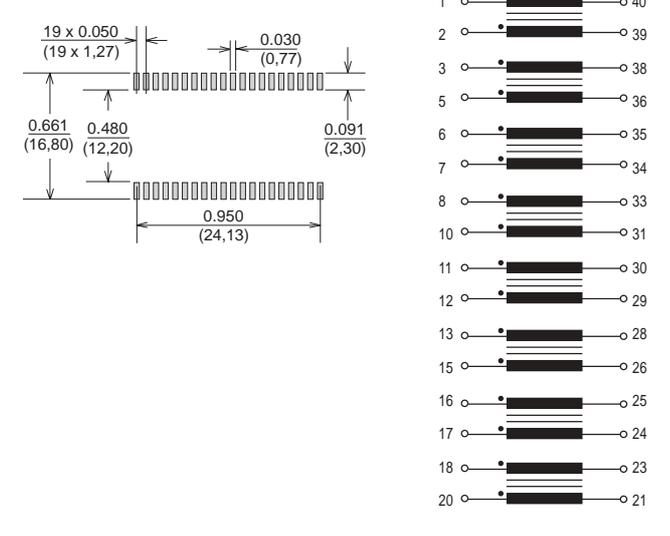
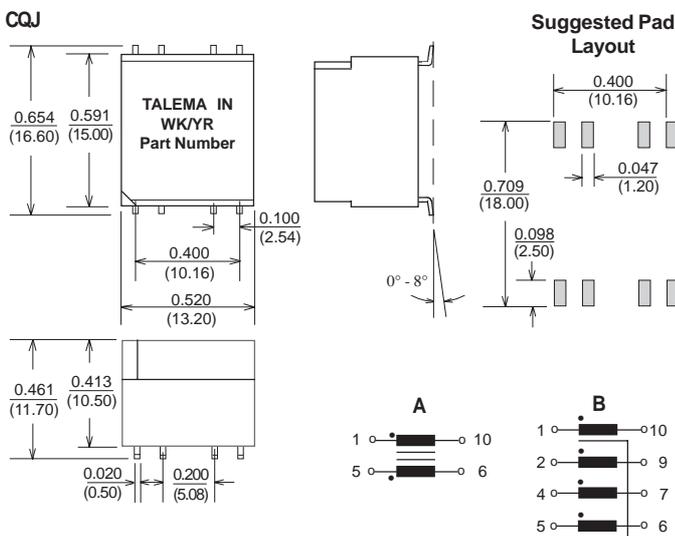
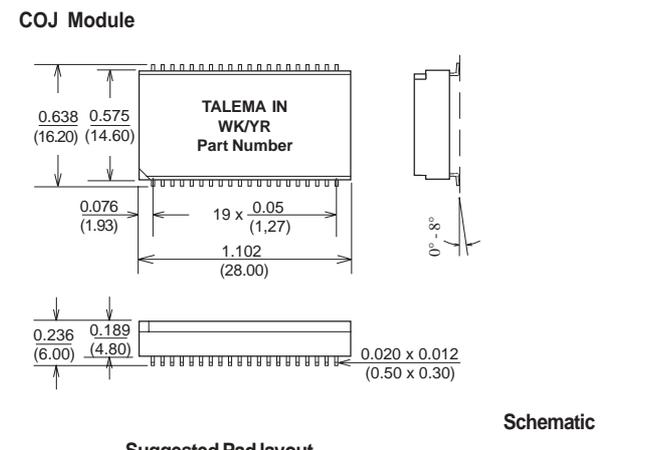
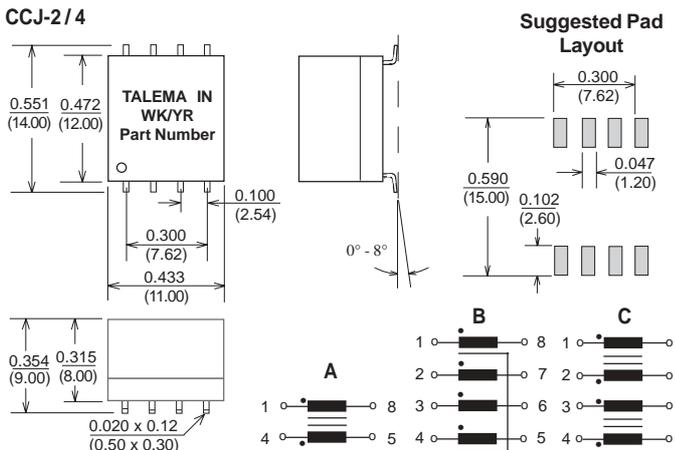
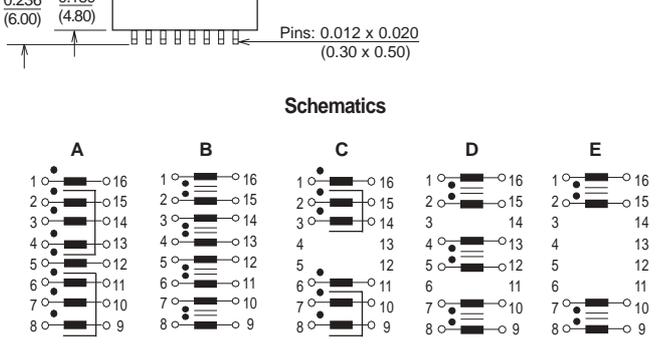
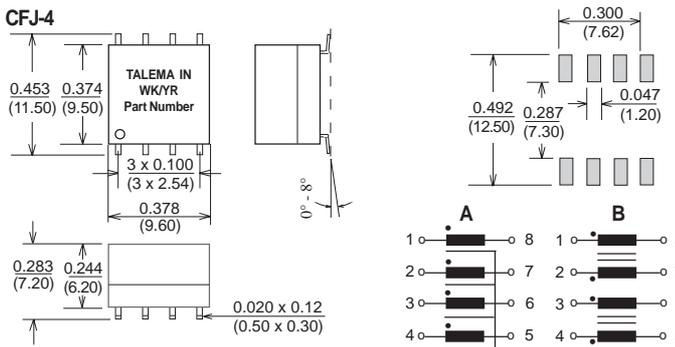
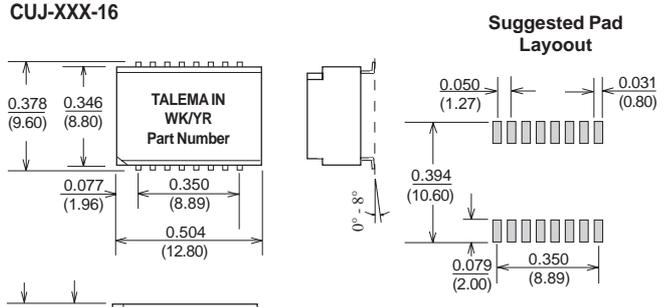
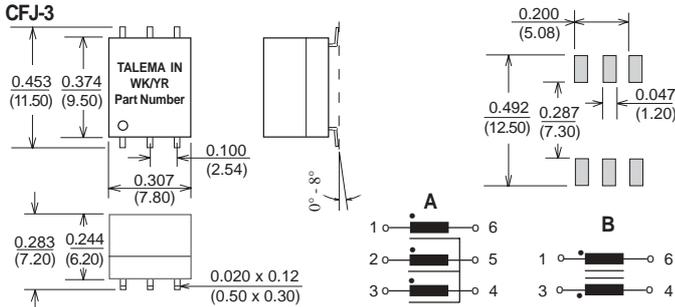
CMJ-4



Packaging & Dimensions • Miniature SMD Common Mode Chokes

Dimensions: Inches (Millimeters)
Surface Coplanarity will be 0.004 (0.10) maximum

Tolerance: ± 0.010 (0.25) unless specified otherwise





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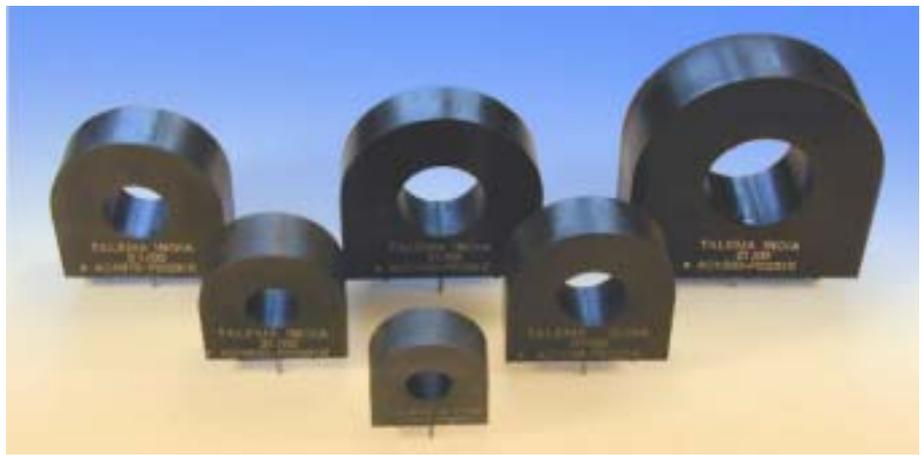
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Summary TOTAL PROGRAM

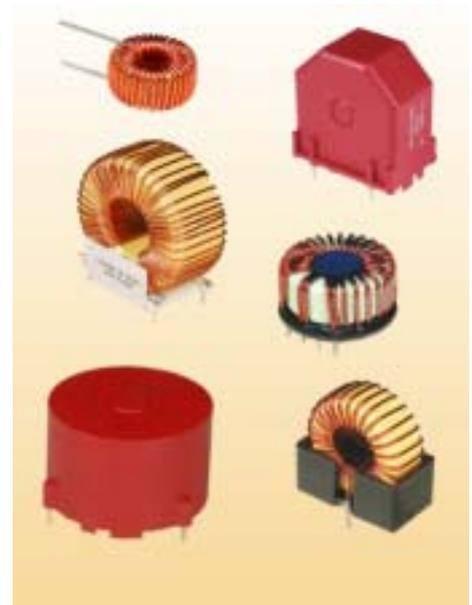
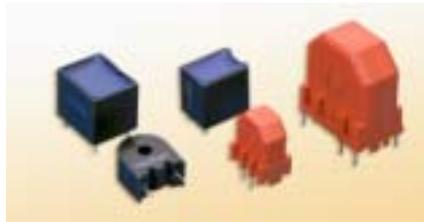
SECTION 1

- Toroidal Transformers for Universal Application



SECTION 2

- Toroidal Printed Circuit Transformers



SECTION 3

- Eleven Good Reasons To Select TALEMA Toroidal Transformers

SECTION 4

- Current sense inductors and transformers
- Common mode toroidal chokes
- High capacity linear storage chokes
- Toroidal filter and storage chokes
- Differential mode toroids
- Power inductors
- High stability storage chokes
- Miniature, high current, surface mount inductors
- Low power, high stability inductors



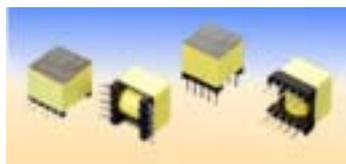
SECTION 5

- Inductive components for ISDN and data communications
- Interface signal transformers and modules - toroidal and linear
- Isolation and coupling transformers
- Pulse transformers



SECTION 6

- SMD and DIL Common mode interface chokes for EMI Noise Suppression
- Data and Signal Line Filters



SECTION 7

- 50/60Hz Current Transformers for sensing current overload. Primary current ratings from 1 to 200 Amps.
- Current Sense Inductors and Transformers for frequency ranges from 20kHz to 200kHz. Primary current ratings to 80 Amps

