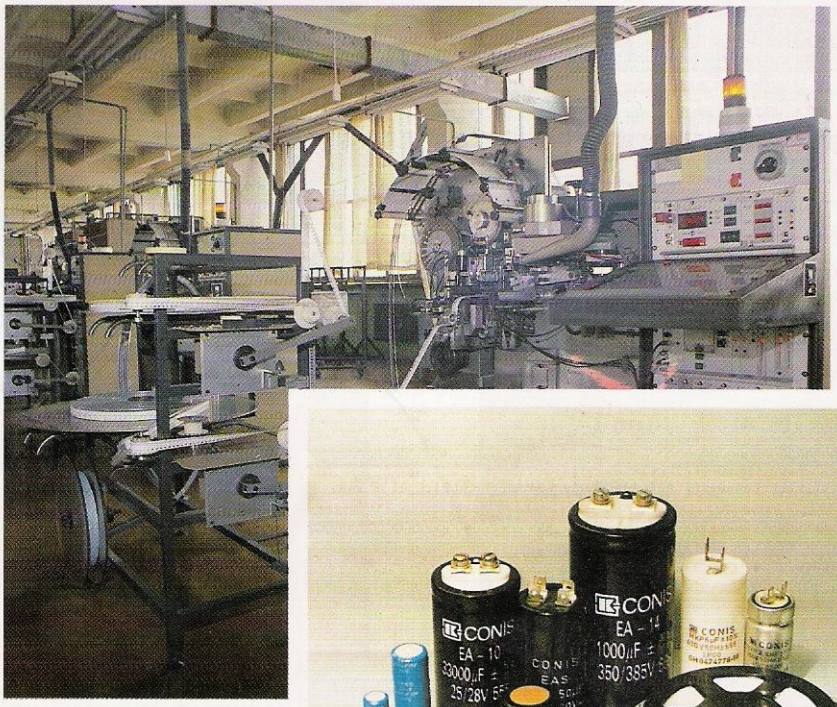
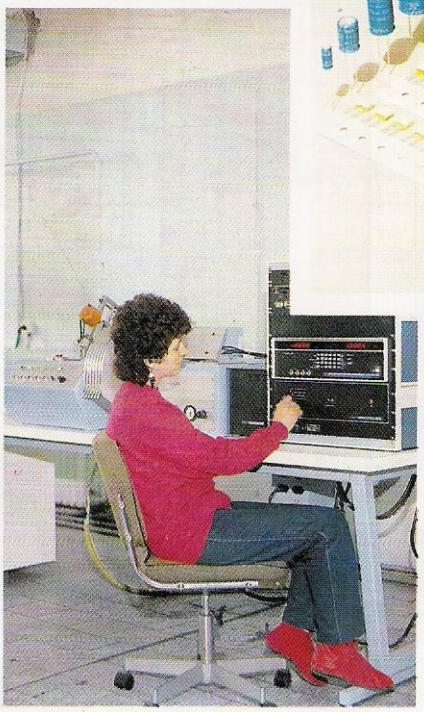
CONIS® JSCo

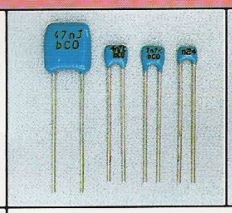
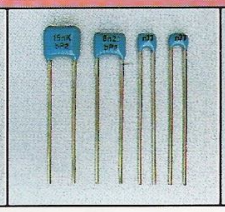
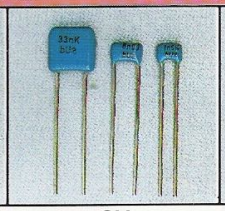
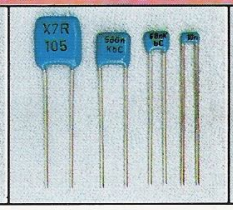
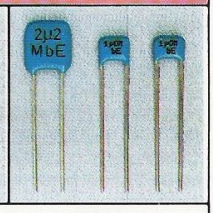
CAPACITORS, HYBRID CIRCUITS, ENGINEERING ALARM SYSTEMS





SHORT FORM CATALOGUE

DIPPED MULTILAYER CERAMIC CAPACITORS

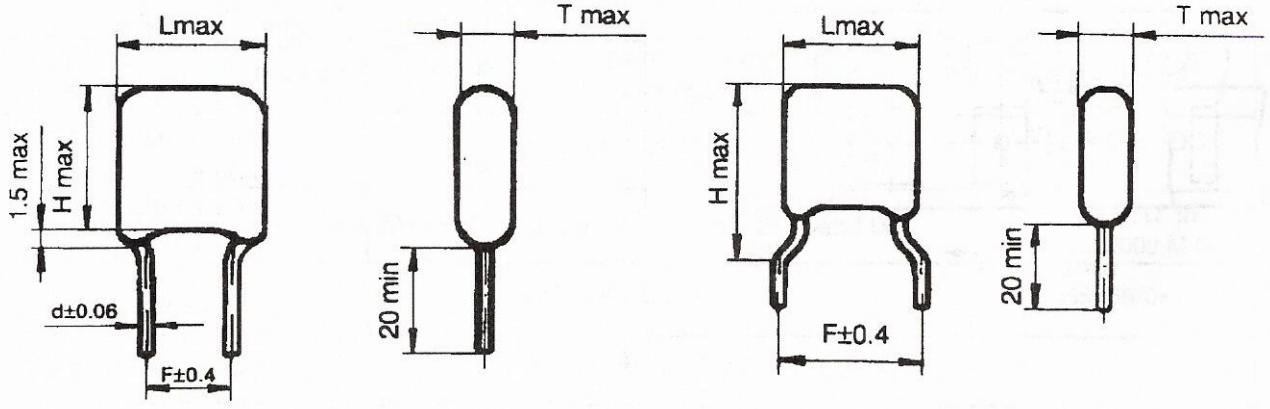
RELEVANT FIGURES IN THE COLOURED BOXES INDICATE THE LEAD SPACING. FOR DETAILED INFORMATION, PLEASE SEE COMPLETE CATALOGUE.					
TYPE	CM				
CER. DIELECTRIC	NPO (COG)	N150 (P2G)	N750 (U2J)	X7R	Z5U
MAX. CAPACITANCE CHANGE	(0 ± 30) ppm/ °C	(-150±30) ppm/ °C	(-750±120) ppm/ °C	± 15%	(- 56% ... +22%) in (-10 ... + 85 °C)
RATED CAPACITANCE Cr	at 25°C, 1 MHz, Um ≤ 5 V eff, 50 mA max for Cr ≤ 1000 pF; at 25 °C, 1 kHz, Um ≤ 5 V eff, 50 mA max for Cr >1000 pF			at 25 °C, 1kHz, Um ≤ 1 V eff, 50 mA max	
CAPACITANCE TOLERANCE	± 0,25 pF; ± 0,5 pF; for Cr ≤ 10 pF; ± 5%; ±10% for Cr >10 pF; ±1%, ±2%, for Cr ≥ 22 pF			± 10% ± 20%	± 20% (- 20... + 50%)
DISSIPATION FACTOR	$\leq 15\ (\frac{15}{Cr} + 0{,}7) \times 10^{-4}$ for Cr ≤ 50 pF; $\leq 10.10^{-4}$ for Cr>50 pF			$\leq 250.10^{-4}$	$\leq 300.10^{-4}$
TEST VOLTAGE	2,5 times rated voltage for 5 s				
MIN. INSULATION RESISTANCE	1000 $M\Omega$. μF or 100 000 $M\Omega$ - 60 s at 25 °C, 10 V for Ur < 100 V; 100 V for Ur ≥ 100 V				500 $M\Omega$. μF or 10 000 $M\Omega$
IEC - CLIMATIC CATEGORY	434 (55/125/56)				455 (55/085/21)
ENCAPSULATION	EPOXY RESIN COATING				

RATED VOLTAGE (VDC) / CAPACITANCE	50	100	200	50	100	200	50	100	200	50	100	200	50	100
10pF 100pF	2,54	2,54	2,54	2,54	2,54	2,54	2,54	2,54	2,54	2,54	2,54	2,54		
120pF 470pF														
560pF 820pF														
910pF 1,5nF						5,08								
1,8nF 2,7nF														
3,3nF 4,7nF			5,08											
5,1nF 5,6nF														
6,8nF 10nF														
11nF 15nF		5,08												
18nF 33nF	5,08			5,08	5,08	5,08	5,08	5,08	5,08	5,08	5,08	5,08		
39nF 51nF														
56nF 62nF													2,54	2,54
68nF 82nF														
100nF 150nF													2,54	
180nF 220nF												5,08		
270nF 470nF											5,08			
680nF 1 μF										5,08			5,08	5,08
1,5 μF 2,2 μF													5,08	
3,3 μF 3,9 μF														
4,7 μF														

UPON REQUEST WITH LEAD SPACING 5,08 mm

RADIAL LEAD CAPACITORS TYPE **CM**
RATED CAPACITANCE Cr, pF

Size Code		CC15	CC20	CC30	CC40
Lmax [mm]		4.0 4.0	5.5 5.5	8.0	10.0
Hmax [mm]		3.5 6.0	4.5 6.0	7.5	10.5
Tmax [mm]		2.5 2.5	3.0 3.0	4.0	4.0
F ± 0.4 [mm]		2.54 5.08	2.54 5.08	5.08	5.08
d ± 0.06 [mm]		0.6	0.6	0.6	0.6
NP0	50 V	10 - 1200	1300 - 6800	7500 - 39000	43000 - 51000
	100 V	10 - 390	430 - 5100	5600 - 20000	22000 - 39000
	200 V	10 - 220	270 - 820	910 - 4300	4700 - 10000
N150	50 V	10 - 820	910 - 4700	5100 - 22000	24000 - 51000
	100 V	10 - 300	330 - 1500	1600 - 15000	16000 - 39000
	200 V	10 - 150	160 - 430	470 - 2700	3000 - 6200
N750	50 V	100 - 1000	1100 - 5600	6200 - 27000	30000 - 62000
	100 V	100 - 820	910 - 4700	5100 - 22000	21000 - 33000
	200 V	100 - 160	180 - 910	1000 - 4300	4700 - 11000
X7R	50 V	470 - 27000	33000 - 150000	180000 - 680000	820000 - 2200000
	100 V	470 - 15000	18000 - 82000	100000 - 470000	560000 - 1000000
	200 V	470 - 1500	1800 - 15000	18000 - 68000	82000 - 180000
Z5U	50 V	10000 - 100000	150000 - 470000	680000 - 1500000	2200000 - 4700000
	63 V	10000 - 68000	100000 - 220000	330000 - 1000000	1500000 - 2200000



TYPICAL CURVES
CAPACITANCE CHANGE VS. TEMPERATURE