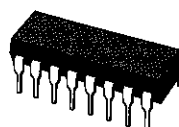


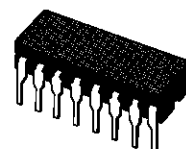
24 - STAGE FREQUENCY DIVIDER

PRODUCT PREVIEW

- VERY LOW QUIESCENT CURRENT
- HIGH NOISE IMMUNITY
- VOLTAGE SUPPLY RANGE 3V TO 18V
- ALL STAGES ARE RESETTABLE
- RESET DISABLES THE RC OSCILLATOR FOR LOW STANDBY POWER DRAIN
- RC AND CRYSTAL OSCILLATOR OUTPUT ARE CAPABLE OF DRIVING EXTERNAL LOADS



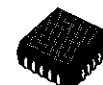
EY
(Plastic Package)



F
(Ceramic Frit Seal Package)



M1
(Micro Package)



C1
(Plastic Chip Carrier)

ORDER CODES :

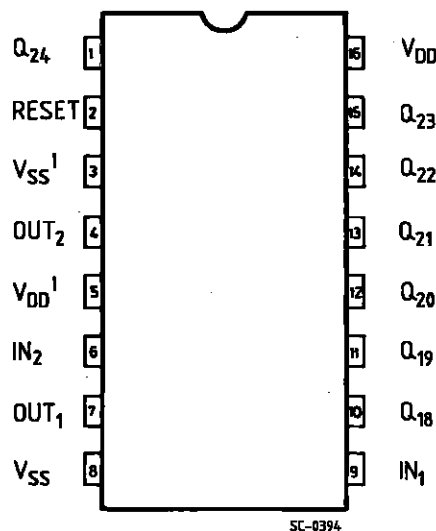
HCC4521 BF	HCF4521 BM1
HCF4521 BEY	HCF4521 BC1

DESCRIPTION

The HCC4521B and HCF4521B are monolithic integrated circuits, available in 16-lead dual-in-line plastic or ceramic packages and plastic micro packages.

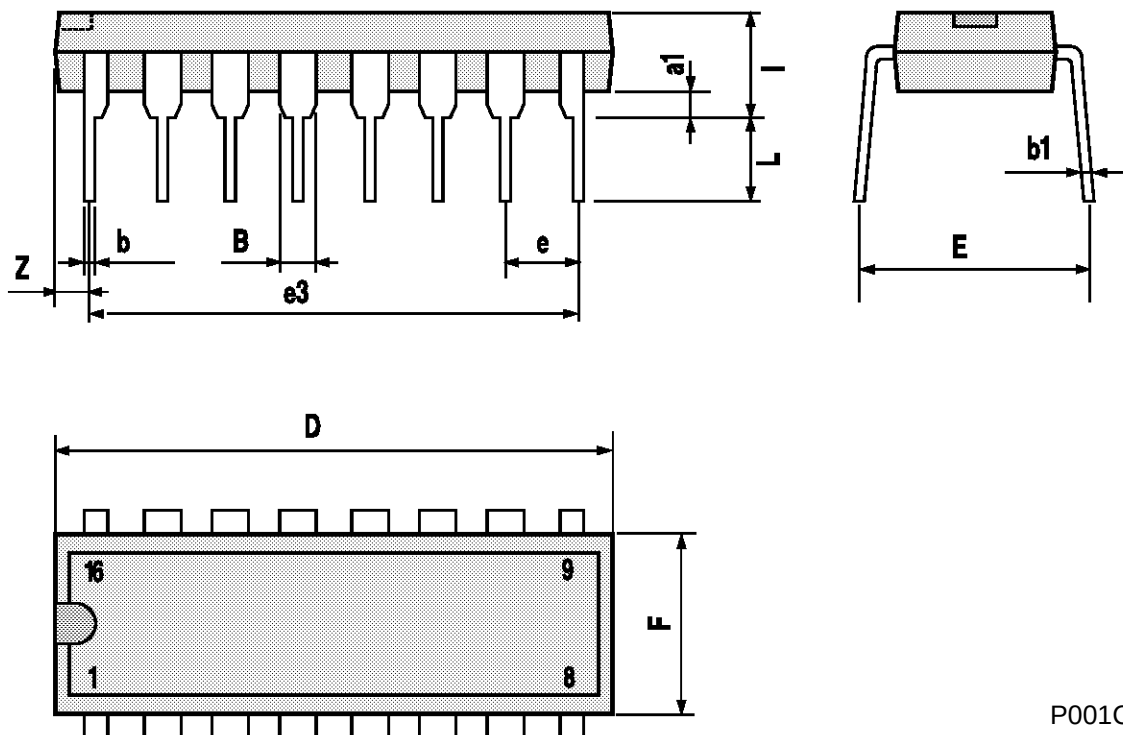
The HCC4521B and HCF4521B have a chain of 24 flip-flops with an input circuit that allows three modes of operation. The input circuit functions as a crystal or an RC oscillator or as an input buffer for an external oscillator. Each flip-flop preforms a divide-by-two function giving a total count of $2^{24} = 16,777,216$. The count advances on the negative going edge of the clock. Access is available to the final seven stages giving the device added flexibility.

PIN CONNECTION (top view)



Plastic DIP16 (0.25) MECHANICAL DATA

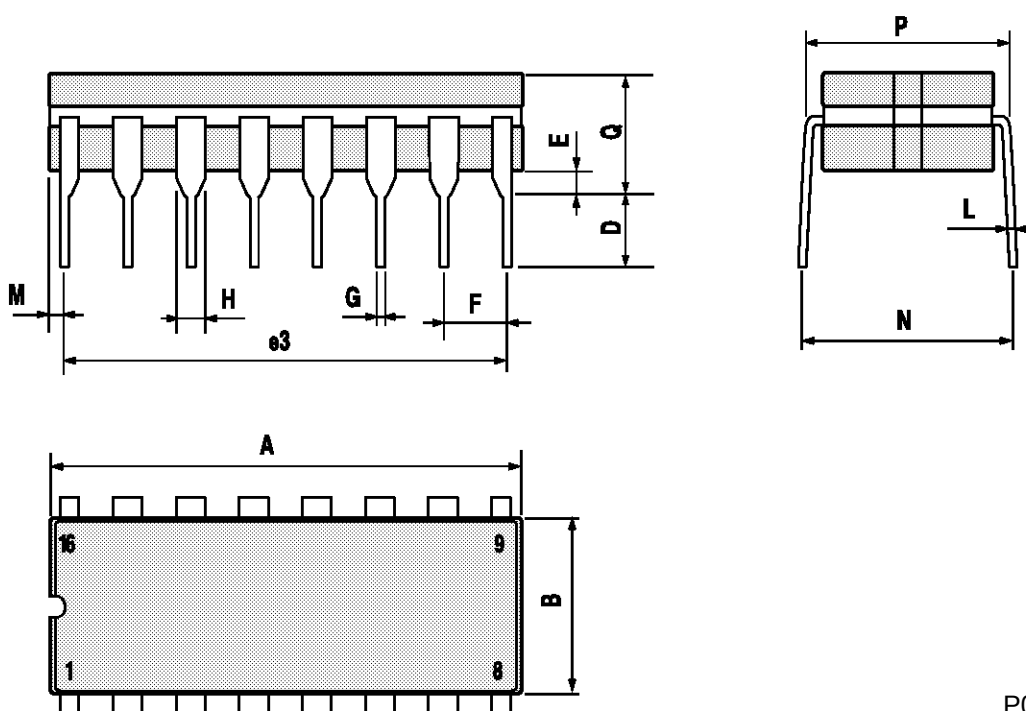
DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
a1	0.51			0.020		
B	0.77		1.65	0.030		0.065
b		0.5			0.020	
b1		0.25			0.010	
D			20			0.787
E		8.5			0.335	
e		2.54			0.100	
e3		17.78			0.700	
F			7.1			0.280
I			5.1			0.201
L		3.3			0.130	
Z			1.27			0.050



P001C

Ceramic DIP16/1 MECHANICAL DATA

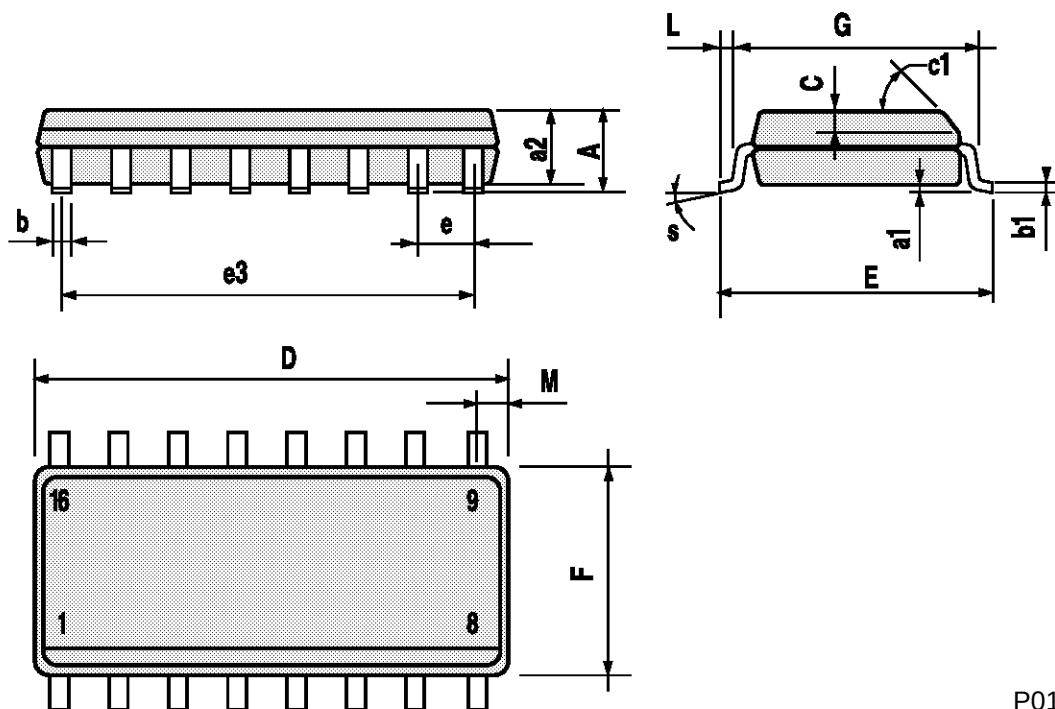
DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A			20			0.787
B			7			0.276
D		3.3			0.130	
E	0.38			0.015		
e3		17.78			0.700	
F	2.29		2.79	0.090		0.110
G	0.4		0.55	0.016		0.022
H	1.17		1.52	0.046		0.060
L	0.22		0.31	0.009		0.012
M	0.51		1.27	0.020		0.050
N			10.3			0.406
P	7.8		8.05	0.307		0.317
Q			5.08			0.200



P053D

SO16 (Narrow) MECHANICAL DATA

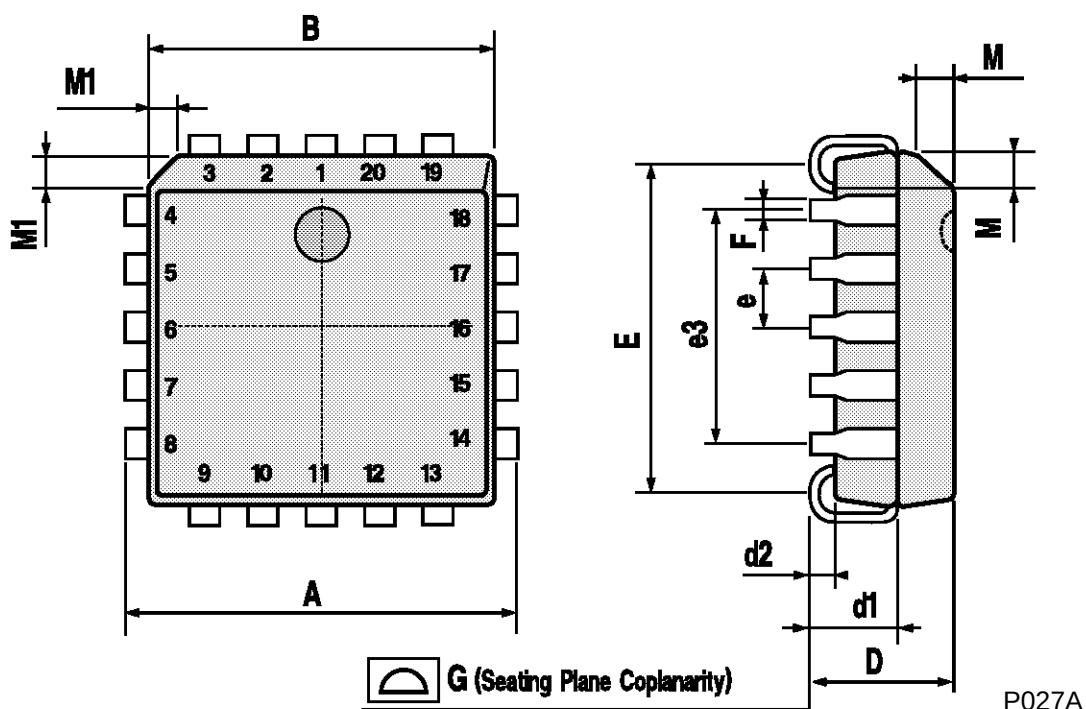
DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A			1.75			0.068
a1	0.1		0.2	0.004		0.007
a2			1.65			0.064
b	0.35		0.46	0.013		0.018
b1	0.19		0.25	0.007		0.010
C		0.5			0.019	
c1	45° (typ.)					
D	9.8		10	0.385		0.393
E	5.8		6.2	0.228		0.244
e		1.27			0.050	
e3		8.89			0.350	
F	3.8		4.0	0.149		0.157
G	4.6		5.3	0.181		0.208
L	0.5		1.27	0.019		0.050
M			0.62			0.024
S	8° (max.)					



P013H

PLCC20 MECHANICAL DATA

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	9.78		10.03	0.385		0.395
B	8.89		9.04	0.350		0.356
D	4.2		4.57	0.165		0.180
d1		2.54			0.100	
d2		0.56			0.022	
E	7.37		8.38	0.290		0.330
e		1.27			0.050	
e3		5.08			0.200	
F		0.38			0.015	
G			0.101			0.004
M		1.27			0.050	
M1		1.14			0.045	



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