# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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## Panasonic



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

8.40 to 13.0 4.00 to 8.39

8.40 to 13.0

12.0 to 20.0

16.0 to 20.0

30.0 to 50.0

**EFOPM** 

EFODM

EFOLM

33 pF

18 pF

10 pF

±1.0 %

±0.3 %

±1.0 %

±1.0 %

±1.0 %

±0.3 %

■ Dimensions in mm (not to scale) Recommended Land Dimensions

[Type EFOP]·····2.0 to 13.0 MHz



[Type EFOP, EFOPM]



### [Type EFOPM]·····4.0 to 13.0 MHz



### [Type EFOPS]·····4.0 to 13.0 MHz



[Type EFOD]·····13.1 to 20.0 MHz



[Type EFOPS]



### [Type EFOD]



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■ Dimensions in mm (not to scale) Recommended Land Dimensions [Type EFODM]·····12.0 to 20.0MHz



### [Type EFOLM] ..... 16.0 to 20.0, 30.0 to 50.0 MHz



### [Type EFODM]



[Type EFOLM]



### Test Circuits Diagram





For Loop Gain

Frequency	IC		
	µPD4069UBC,		
2.00 to 8.39 MHz	TC4069UBP		
	or similar		
8.40 to 50.0 MHz	µPD74HCU,		
	TC74HCU04AP		
	or similar		

### ■ Typical Characteristics ..... Temperature Characteristics



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## Panasonic

## Typical Characteristics ····· Temperature Characteristics



### Packaging Specifications

Supplied in bulk or taped & reel packing style

#### • Standard Packing Quantity

Туре	Embossed Taping	Bulk
EFOP, EFOPM	2500 pcs./reel	
EFOPS	2000 pcs./reel	500 pcs./bag
EFOD, EFODM, EFOLM	1000 pcs./reel	

### Dimensions for Reel in mm (not to scale)



### • Embossed Taping

### [Type EFOP, EFOPM]



### [Type EFOD, EFODM, EFOLM]



#### 0.8 Frequency Drift(%) 0.6 0.4 0.2 0.0 -0.2 Oscillation -0.4 -0.6 -0.8 -20 0 20 40 60 80 Temperature (°C)



### [Type EFOP, EFOPM]

Dim.	φA	φB	С	D	E
(mm)	330±5	80 min.	13.0±0.5	21.0±0.8	2.0±0.5
Dim.	W	Т	t	r	
(mm)	16.4+2.0	22.4 max.	3 max.	1.0	

### [Type EFOPS, EFOD, EDODM, EFOLM]

Dim.	φA	φB	С	D	Е
(mm)	180±5	60 min.	13.0±0.5	21.0±0.8	2.0±0.5
Dim.	W	Т	t	r	
(mm)	12.4 <sup>+2.0</sup>	18.4 max.	3 max.	1.0	



Dim.	А	В	W	F	E	P <sub>1</sub>
(mm)	2.6±0.2	5.1±0.2	12.0±0.3	5.5±0.1	1.75±0.10	4.0±0.1
Dim.	P <sub>2</sub>	Po	φD₀	t1	t2	
(mm)	2.0±0.1	4.0±0.1	1.5 <sup>+0.1</sup>	0.6 max.	3.0 max.	

Dim. (mm)	А	В
	1	2
Type EFOD	3.7±0.2	6.0±0.2
Type EFODM	3.4±0.2	4.6±0.2
Type EFOLM	4.1±0.2	4.9±0.2

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