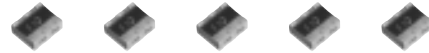


### Ceramic Resonators, Chip Type

Type: **JN** ( 16 to 50 MHz)



#### ■ Features

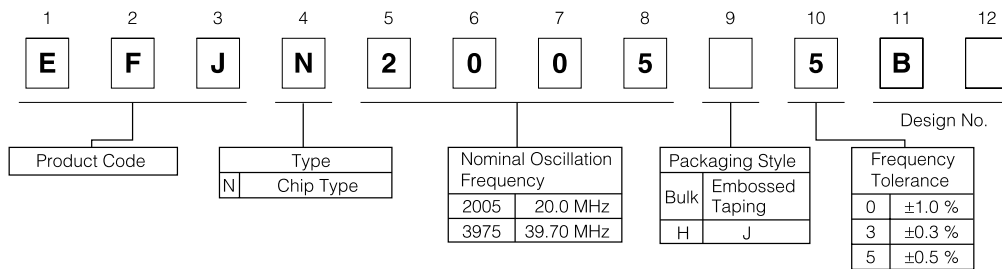
- Low Profile Type (1.2 mm maximum in thickness)
- Designed for lead free soldering
- Wide Oscillation Frequency : 16 to 50 MHz
- High reliability against soldering heat and mechanical stress

#### ■ Recommended Applications

- Clock generator for microprocessors
- Carrier between telecommunication equipment (Telephone to telephone, personal computer to printer)

#### ■ Precautions for Safety (See Page 237 to 238)

#### ■ Explanation of Part Numbers



#### ■ Ratings and Characteristics

Part Number		Oscillation Frequency (fo)	Loop Gain (G)	Weight (g)	Temperature Characteristics
Bulk Pack	Embossed Taping				
EFJN1695H5B	EFJN1695J5B	16.93 MHz ±0.5 %	14 dB min.	0.022	Maximum frequency drift: ±0.2 %, -20 to 80 °C
EFJN2005H5B	EFJN2005J5B	20.00 MHz ±0.5 %			
EFJN2505H5B	EFJN2505J5B	25.00 MHz ±0.5 %			
EFJN3205H5B	EFJN3205J5B	32.00 MHz ±0.5 %			
EFJN3385H5B	EFJN3385J5B	33.868 MHz ±0.5 %			
EFJN4005H5B	EFJN4005J5B	40.00 MHz ±0.5 %			

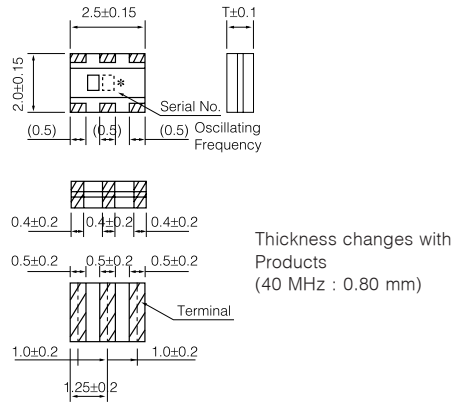
- Operating Temperature Range: -20 to 80 °C
- Frequency Drift : 0.2% max./10 years

Note:  
Also available are types other than above standard products in the frequency range of 16.0 to 50.0 MHz.

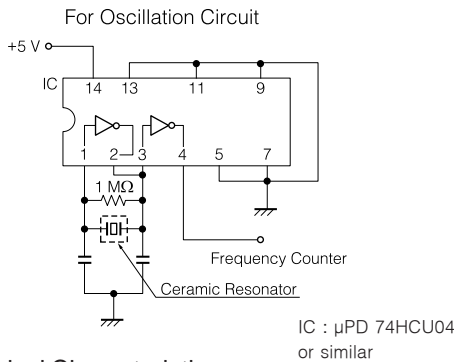
### ■ Dimensions in mm (not to scale)

- Bulk

[Type JN] EFJN□□□□H□B

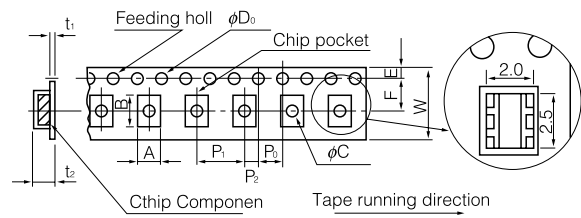


### ■ Test Circuits Diagram



- Embossed Taping

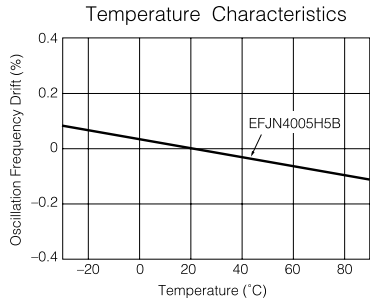
[Type JN] EFJN□□□□J□B



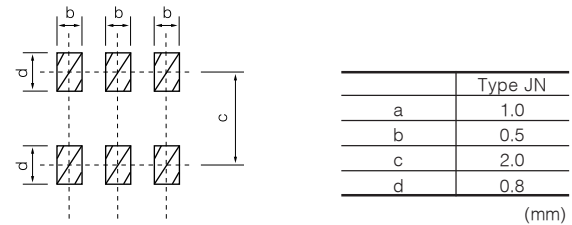
Dim.	A	B	W	F	E	P <sub>1</sub>
(mm)	2.3	2.8	8.0±0.2	3.5±0.1	1.75±0.1	4.0±0.1

Dim.	P <sub>2</sub>	P <sub>0</sub>	φD <sub>0</sub>	t <sub>1</sub>	t <sub>2</sub>	φC
(mm)	2.0±0.1	4.0±0.1	1.5 <sup>+0.1</sup> <sub>0</sub>	0.35	1.65	1.0

### ■ Typical Characteristics



### ■ Recommended Land Dimensions



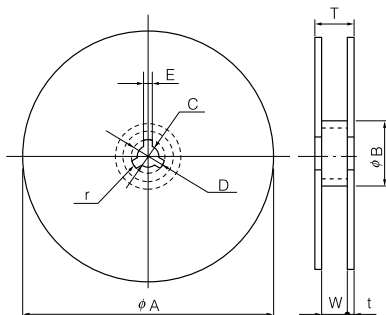
### ■ Packaging Specifications

Supplied in bulk or taped & reel packing style

### ● Standard Packing Quantity

Embossed Taping	Bulk
3000 pcs./reel	500 pcs./bag

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



Dim.	φA	φB	C	D	E
(mm)	180±5	60 min.	13±0.2	21±0.8	2.0±0.5

Dim.	W	T	t	r
(mm)	9.0 <sup>+1.0</sup> <sub>-0.5</sub>	14.0 max.	2.5 max.	1.0

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.