

## FSR Series

## Surface Mountable Type

變更紀錄	日期	版本	製作	檢查	審核
1. 系列 SPEC 發行	2022/05/12	V1	Vincent	Tony	Alan



# FSR Series

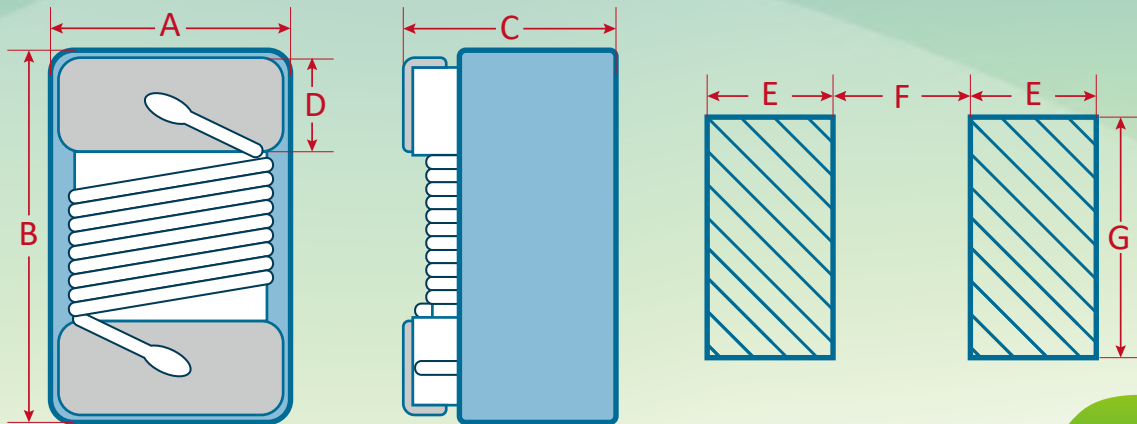
# INDEX

- ◎ **FSR02** (0.65\*1.15\*0.60) ..... **P.3-P.4**  
- Inductance Range : 1.0~4.7(uH)
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- Inductance Range : 0.047~47(uH)
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- Inductance Range : 0.12~1000(uH)

# FSR Series

## Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G
FSR02	0.65±0.1	1.15±0.1	0.60±0.05	0.20	0.36	0.46	0.66

### FSR02

Part No.	Inductance		DCR(mΩ) ±20%	Isat(A)		Irms(A) Typ.	Tolerance (±%)
	(uH)	(MHz)		Typ.	Max.		
FSR02□T1R0	1.0	1.0	280	1.10	1.00	1.10	M · N
FSR02□T2R2	2.2	1.0	880	0.60	0.50	0.60	M · N
FSR02□T4R7	4.7	1.0	1950	0.35	0.30	0.40	M · N

### Ordering information

#### FSR - 02 - M - T - 1R0

(1) (2) (3) (4) (5)

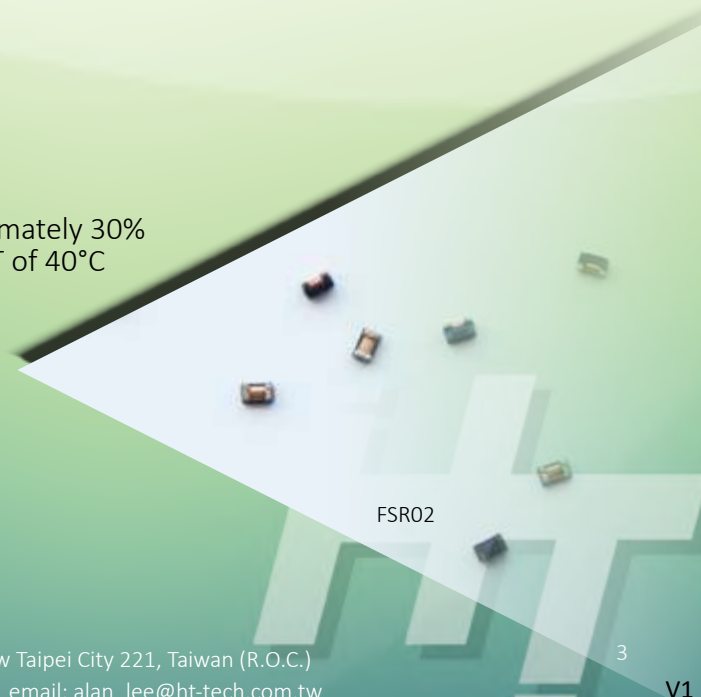
- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 02 is size
- ( 3 ) Tolerance : M=20%, N=30%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R33 for 0.33uH, 1R0 for 1.0uH...

### Characteristics

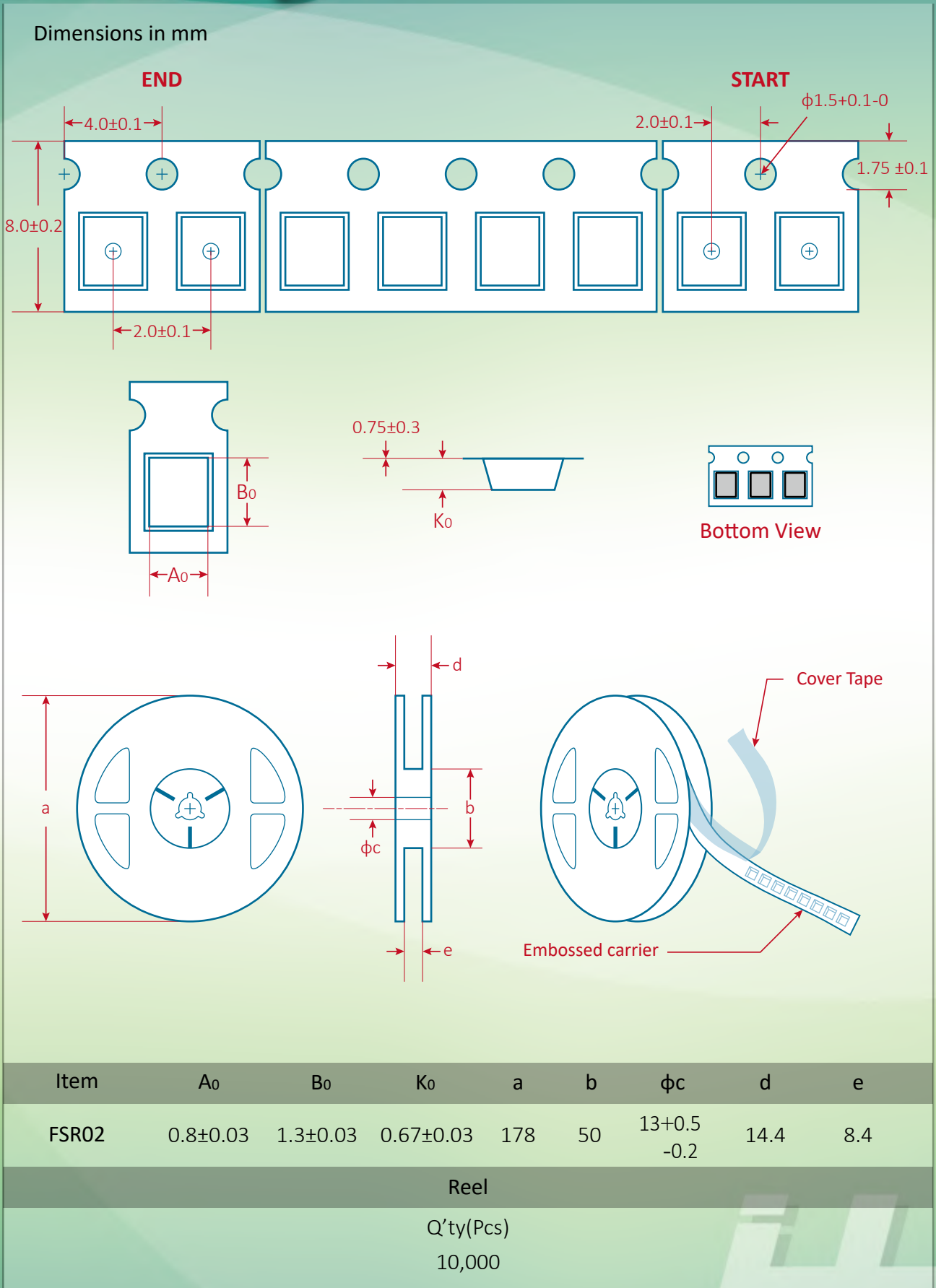
- All test data is referred to 25°C ambient.
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Operating temperature range : -40°C to +105°C

### Test equipment

- Test Frequency : 1MHz
- L/Q/DCR : E4982A + Agilent 16197A



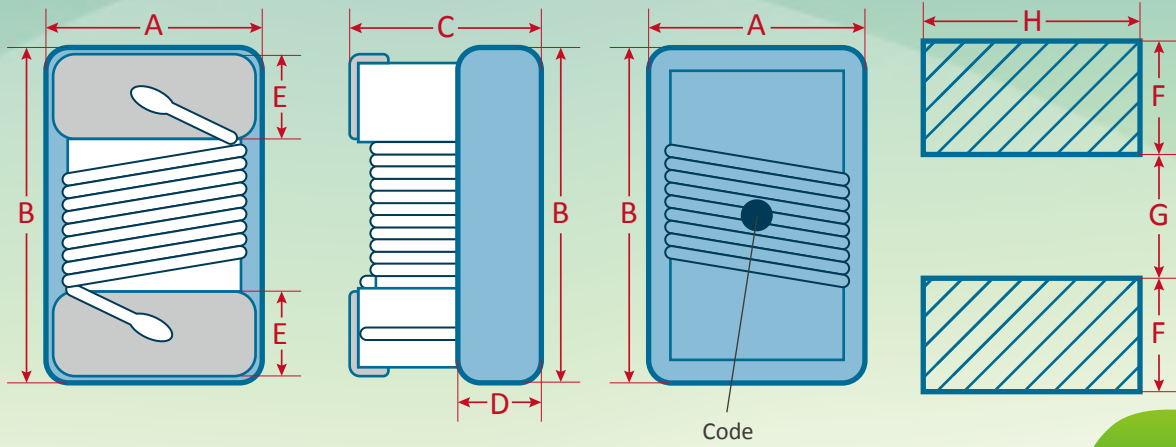
# Packing



# FSR Series

## Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
FSR03	1.2 Max.	1.8 Max.	1.1 Max.	0.45 Ref.	0.33±0.1	0.64 Typ.	0.64 Typ.	1.02 Typ.
FSR03-B	1.2 Max.	1.8 Max.	1.0 Max.	0.45 Ref.	0.33±0.1	0.64 Typ.	0.64 Typ.	1.02 Typ.
FSR03-H	1.2 Max.	1.8 Max.	1.0 Max.	0.45 Ref.	0.33	0.64 Typ.	0.64 Typ.	1.02 Typ.

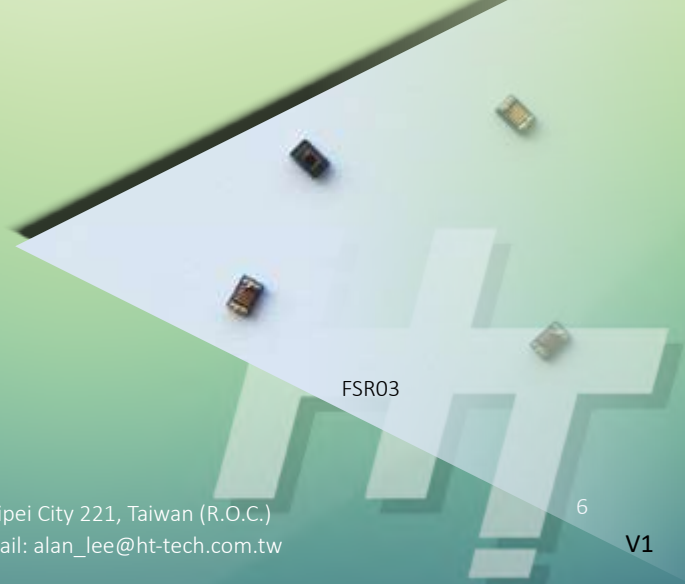
### FSR03

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Isat(A)		Tolerance (±%)	Color Coding
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	Typ.	Max.			
FSR03KT47N	0.047	7.9	12	7.9	75	2000	1.8	1.6	10	White		
FSR03KT51N	0.051	7.9	12	7.9	75	1500	1.8	1.5	10	Violet		
FSR03KT56N	0.056	7.9	7.0	7.9	95	1500	2.2	1.6	10	Blue		
FSR03KT68N	0.068	7.9	10	7.9	120	1500	2.2	1.7	10	Gray		
FSR03KT72N	0.072	7.9	12	7.9	120	1500	2.2	1.6	10	Brown		
FSR03KTR10	0.1	7.9	12	7.9	130	1150	2.2	1.3	10	Black		
FSR03KTR12	0.12	7.9	12	7.9	150	1100	1.9	1.3	10	Orange		
FSR03KTR15	0.15	7.9	15	7.9	150	1050	1.8	1.1	10	Brown		
FSR03KTR18	0.18	7.9	15	7.9	150	950	1.8	1.1	10	Green		
FSR03KTR22	0.22	7.9	15	7.9	300	900	1.3	0.99	10	Red		
FSR03KTR24	0.24	7.9	15	7.9	160	850	1.7	1.1	10	Green		
FSR03KTR27	0.27	7.9	15	7.9	300	835	1.4	1.0	10	Yellow		
FSR03KTR33	0.33	7.9	15	7.9	400	725	1.3	1.0	10	Orange		
FSR03KTR36	0.36	7.9	15	7.9	410	720	1.3	0.99	10	Green		
FSR03KTR39	0.39	7.9	15	7.9	410	680	1.2	0.99	10	Blue		
FSR03KTR47	0.47	7.9	15	7.9	430	640	1.2	0.86	10	Black		
FSR03KTR56	0.56	7.9	15	7.9	440	630	1.2	0.86	10	Brown		
FSR03KTR65	0.65	7.9	15	7.9	520	510	1.0	0.81	10	Blue		
FSR03KTR68	0.68	7.9	15	7.9	520	510	1.0	0.78	10	Red		
FSR03KTR78	0.78	7.9	15	7.9	630	465	0.99	0.78	10	Orange		
FSR03KTR82	0.82	7.9	15	7.9	690	460	0.99	0.76	10	Yellow		
FSR03KTR90	0.9	7.9	15	7.9	810	350	0.95	0.7	10	Black		
FSR03KT1R0	1.0	7.9	15	7.9	810	320	0.85	0.7	10	Green		

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Isat(A)		Tolerance (±%)	Color Coding
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	Typ.				
FSR03KT1R2	1.2	7.9	15	7.9	870	270	0.85	0.59	10	Blue		
FSR03KT1R5	1.5	7.9	15	7.9	960	230	0.83	0.57	10	Violet		
FSR03KT1R8	1.8	7.9	15	7.9	1100	210	0.82	0.54	10	Gray		
FSR03KT2R2	2.2	7.9	15	7.9	1200	115	0.72	0.54	10	White		
FSR03KT2R7	2.7	7.9	15	7.9	1380	100	0.7	0.46	10	Black		
FSR03KT3R0	3.0	7.9	15	7.9	1450	90	0.68	0.43	10	Black		
FSR03KT3R3	3.3	7.9	15	7.9	1500	84	0.64	0.48	10	Brown		
FSR03KT3R9	3.9	7.9	15	7.9	1500	75	0.63	0.48	10	Red		
FSR03KT4R7	4.7	7.9	15	7.9	2100	67	0.53	0.38	10	Orange		
FSR03KT5R6	5.6	7.9	15	7.9	2370	55	0.51	0.36	10	Yellow		
FSR03KT6R8	6.8	7.9	15	7.9	3100	48	0.49	0.35	10	Green		
FSR03KT7R8	7.8	7.9	15	7.9	3350	40	0.42	0.32	10	Blue		
FSR03KT8R2	8.2	7.9	15	7.9	3500	38	0.45	0.32	10	Violet		
FSR03KT100	10	7.9	15	7.9	4460	32	0.37	0.28	10	Gray		
FSR03KT150	15	7.9	14	7.9	9500	25	0.24	0.17	10	White		

**FSR03-B 導磁係數 : 400μ**

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Idc(A)		Tolerance (±%)	Color Coding
	(uH)	(MHz)	Typ.	(MHz)	±30%	Typ.	Typ.	Typ.				
FSR03KT1R0-B	1.0	7.9	16	7.9	320	390	0.86	0.7	10	Black		
FSR03KT1R5-B	1.5	7.9	16	7.9	400	160	0.72	0.6	10	Brown		
FSR03KT1R8-B	1.8	7.9	16	7.9	430	121	0.64	0.58	10	Red		
FSR03KT2R2-B	2.2	7.9	16	7.9	560	103	0.6	0.58	10	Orange		
FSR03KT2R7-B	2.7	7.9	16	7.9	620	72	0.54	0.5	10	Yellow		
FSR03KT3R3-B	3.3	7.9	16	7.9	700	66	0.5	0.5	10	Green		
FSR03KT3R9-B	3.9	7.9	16	7.9	830	61	0.46	0.46	10	Blue		
FSR03KT4R7-B	4.7	7.9	16	7.9	970	51	0.4	0.42	10	Violet		
FSR03KT5R6-B	5.6	7.9	16	7.9	1100	47	0.38	0.38	10	Gray		
FSR03KT6R8-B	6.8	7.9	16	7.9	1500	43	0.34	0.34	10	White		
FSR03KT8R2-B	8.2	7.9	16	7.9	1680	40	0.3	0.3	10	Black		
FSR03KT100-B	10	2.5	14	2.5	1850	36	0.28	0.28	10	Brown		
FSR03KT120-B	12	2.5	14	2.5	2280	32	0.26	0.26	10	Red		
FSR03KT150-B	15	2.5	14	2.5	2600	29	0.24	0.24	10	Orange		
FSR03KT180-B	18	2.5	14	2.5	2900	28	0.22	0.22	10	Yellow		
FSR03KT220-B	22	2.5	14	2.5	3610	24	0.2	0.2	10	Green		
FSR03KT270-B	27	2.5	14	2.5	5200	20	0.14	0.14	10	Blue		
FSR03KT330-B	33	2.5	14	2.5	6600	15	0.12	0.12	10	Violet		



FSR03

**FSR03-H 導磁係數 : 800 $\mu$** 


Part No.	Inductance		Q Typ.	DCR(m $\Omega$ ) $\pm$ 30%	SRF(MHz) Typ.	Idc(A) Typ.	Irms(A) Typ.	Tolerance ( $\pm$ %)	Color Coding	
	( $\mu$ H)	(MHz)								
FSR03KTR27-H	0.27	7.9	13	7.9	260	900	0.95	0.82	10	Green
FSR03KTR47-H	0.47	7.9	13	7.9	260	900	0.92	0.8	10	Blue
FSR03KTR68-H	0.68	7.9	13	7.9	270	650	0.92	0.8	10	Violet
FSR03KTR78-H	0.78	7.9	16	7.9	280	410	0.92	0.8	10	Gray
FSR03KT1R0-H	1.0	7.9	16	7.9	320	390	0.86	0.7	10	Black
FSR03KT1R5-H	1.5	7.9	16	7.9	400	160	0.72	0.6	10	Brown
FSR03KT1R8-H	1.8	7.9	16	7.9	430	121	0.64	0.58	10	Red
FSR03KT2R2-H	2.2	7.9	16	7.9	560	103	0.6	0.58	10	Orange
FSR03KT2R7-H	2.7	7.9	16	7.9	620	72	0.54	0.5	10	Yellow
FSR03KT3R3-H	3.3	7.9	16	7.9	700	66	0.5	0.5	10	Green
FSR03KT3R9-H	3.9	7.9	16	7.9	830	61	0.46	0.46	10	Blue
FSR03KT4R7-H	4.7	7.9	16	7.9	970	51	0.4	0.42	10	Violet
FSR03KT5R6-H	5.6	7.9	16	7.9	1100	47	0.38	0.38	10	Gray
FSR03KT6R8-H	6.8	7.9	16	7.9	1500	43	0.34	0.34	10	White
FSR03KT8R2-H	8.2	7.9	16	7.9	1680	40	0.3	0.3	10	Black
FSR03KT100-H	10	2.5	14	2.5	1850	36	0.28	0.28	10	Brown
FSR03KT120-H	12	2.5	14	2.5	2280	32	0.26	0.26	10	Red
FSR03KT150-H	15	2.5	14	2.5	2600	29	0.24	0.24	10	Orange
FSR03KT180-H	18	2.5	14	2.5	2900	28	0.22	0.22	10	Yellow
FSR03KT220-H	22	2.5	14	2.5	3610	24	0.2	0.2	10	Green
FSR03KT270-H	27	2.5	14	2.5	5200	20	0.14	0.14	10	Blue
FSR03KT330-H	33	2.5	14	2.5	6600	15	0.12	0.12	10	Violet
FSR03KT470-H	47	2.5	12	2.5	11200	11	0.1	0.11	10	Gray

**Ordering information**
**FSR - 03 - K - T - 1R0**

(1) (2) (3) (4) (5)

- (1) Type : Surface Mountable Type
- (2) Size : 03(0603) is size
- (3) Tolerance : K=10%
- (4) Packaging style : Taping Reel
- (5) Inductance : 47N for 0.047 $\mu$ H, R10 for 0.1 $\mu$ H, 1R0 for 1.0 $\mu$ H, 100 for 10 $\mu$ H...

**Characteristics**
**FSR03**

- Isat for Inductance drop 35% from its value without current
- Irms for 40°C rise form 25°C ambient
- Operating temperature range from -25°C to 105°C

**FSR03-B and FSR03-H**

- Idc for Inductance drop 10% from its value without current
- Irms for a 15°C rise above 25°C ambient
- Operating temperature range from -25°C to 85°C

**Test equipment**
**FSR03 and FSR03-H**

- L, Q, SRF : Agilent/ HP E4991A+ Agilent/ HP16197A  
(The electrical specification test by the smallest gap position) or HP16193A
- DCR : Digital Milliohm Meter Chroma 16502, or equivalent

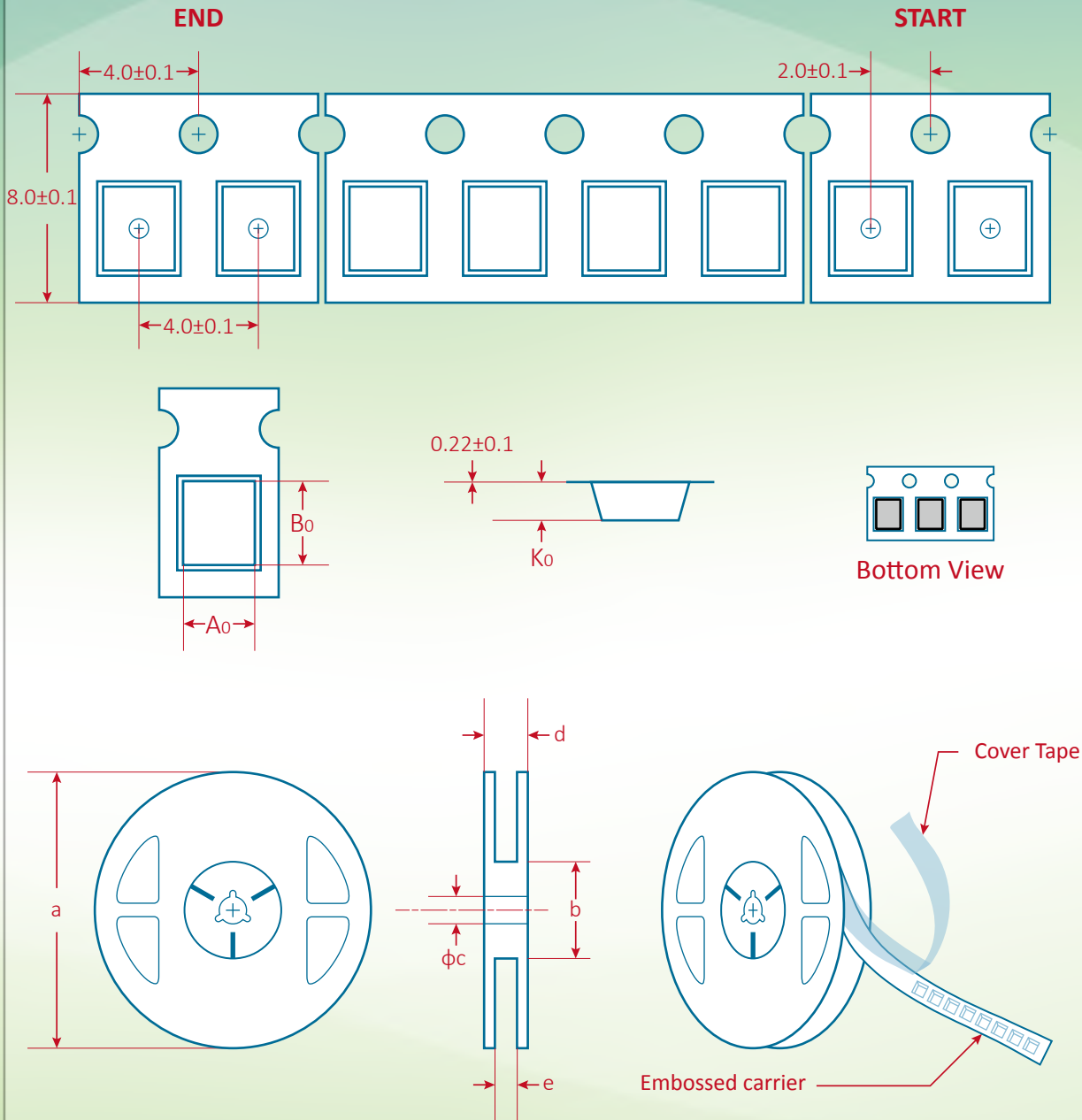
**FSR03-B**

- L, Q, SRF : Agilent/ HP 4291A or 4291B+Agilent/ HP 16197A
- Idc : Microtest LCR Meter 6379

FSR03-H

# Packing

Dimensions in mm



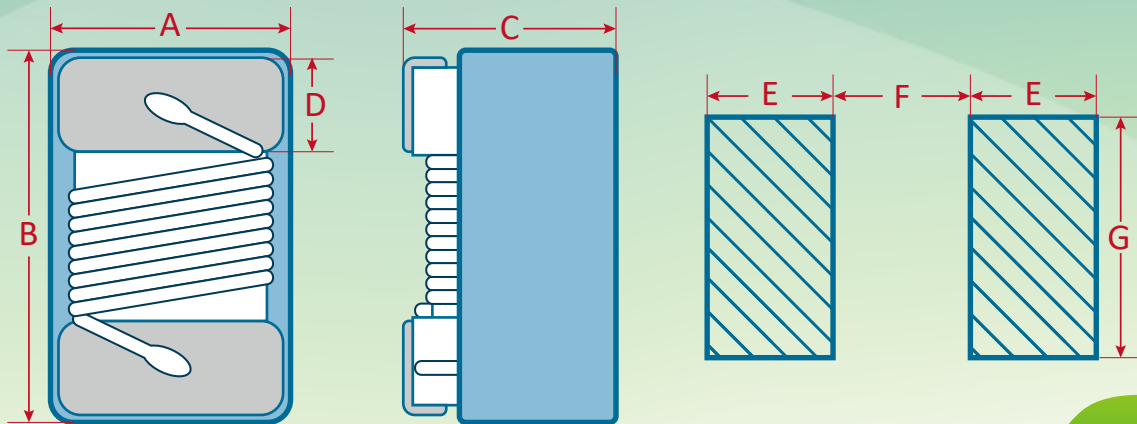
Item	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	a	b	φ <sub>c</sub>	d	e
FSR03	1.25±0.1	1.9±0.1	1.05±0.1	180	60	13	14.4	8.4
FSR03-B	1.3±0.1	1.8±0.1	1.1±0.1	180	60	13	14.4	8.4
FSR03-H	1.25±0.1	1.9±0.1	1.05±0.1	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
4,000								



# FSR Series

## Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G
FSR03-E	1.15±0.1	1.75±0.1	1.0±0.05	0.33	0.64	0.64	1.02

### FSR03-E

Part No.	Inductance		DCR(mΩ) ±30%	Isat(A)		Irms(A) Typ.	Tolerance (±%)
	(uH)	(MHz)		Typ.	Max.		
FSR03□T1R0-E	1.0	1.0	140	0.86	0.78	1.40	M · N
FSR03□T2R2-E	2.2	1.0	220	0.63	0.56	1.10	M · N
FSR03□T4R7-E	4.7	1.0	420	0.44	0.40	0.82	M · N
FSR03□T100-E	10	1.0	950	0.30	0.25	0.60	M · N

### Ordering information

**FSR - 03 - M - T - 1R0 - E**

(1) (2) (3) (4) (5)

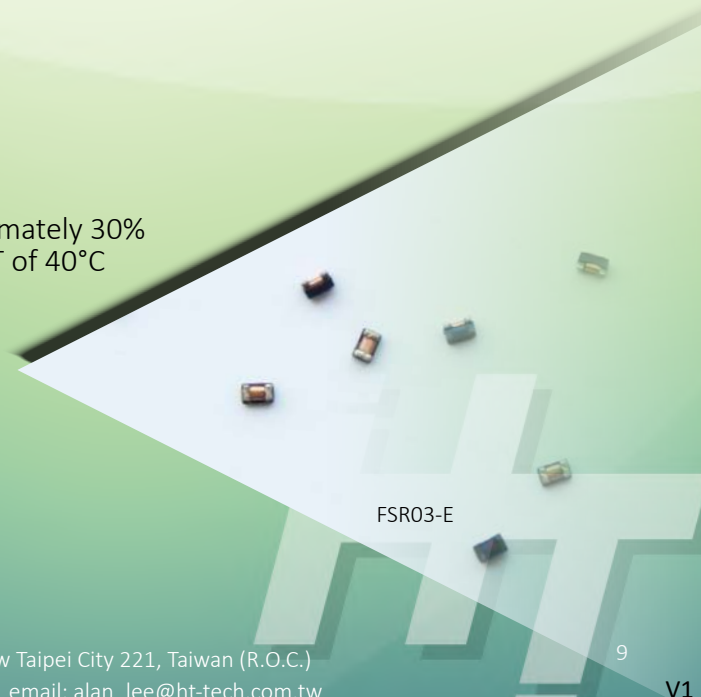
- (1) Type : Surface Mountable Type
- (2) Size : 03is size
- (3) Tolerance : M=20%, N=30%
- (4) Packaging style : Taping Reel
- (5) Inductance : R33 for 0.33uH, 1R0 for 1.0uH...

### Characteristics

- All test data is referred to 25°C ambient.
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Operating temperature range : -40°C to +125°C

### Test equipment

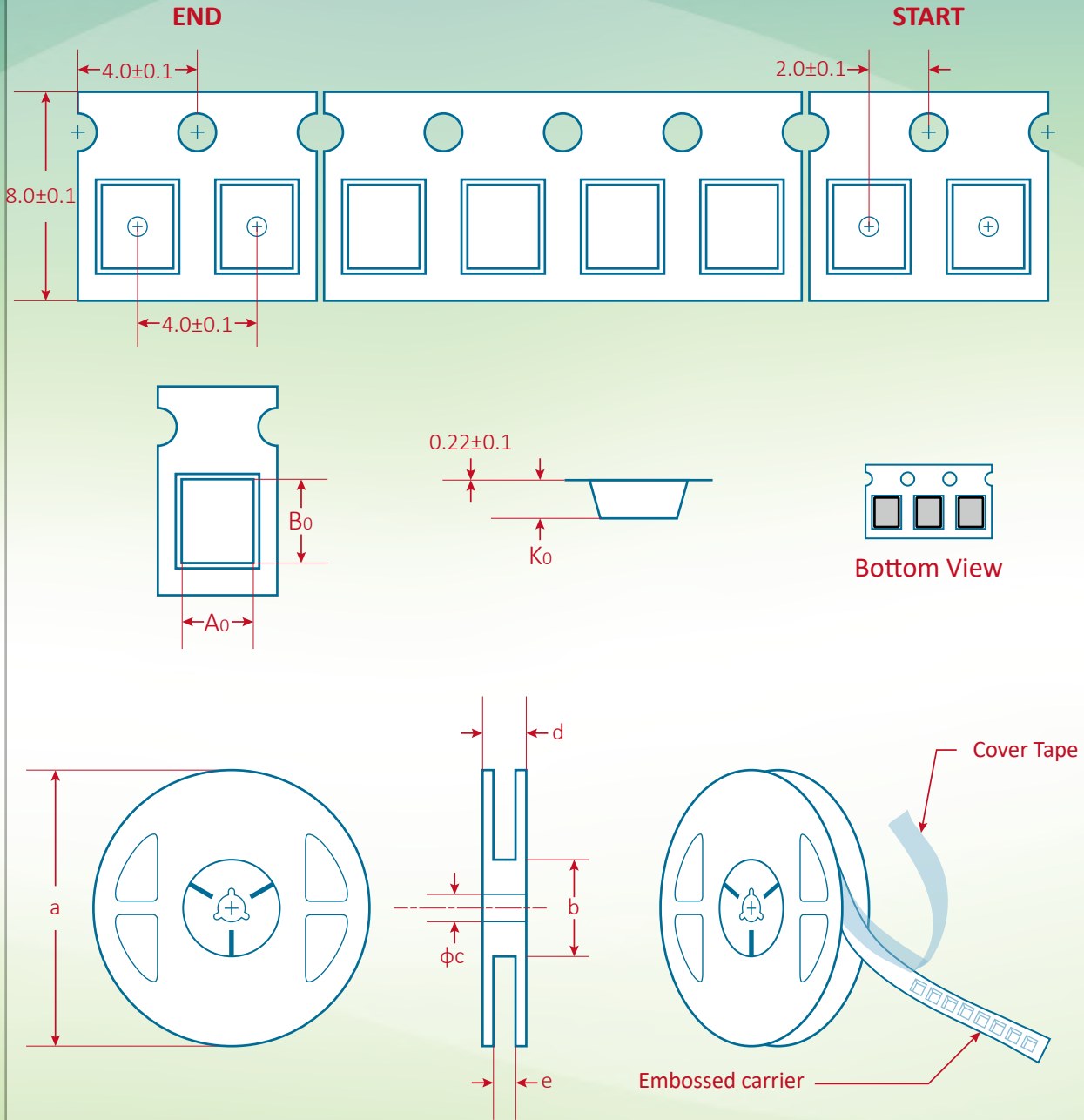
- Test Frequency : 1MHz
- L/Q/DCR : E4982A + Agilent 16197A



FSR03-E

# Packing

Dimensions in mm

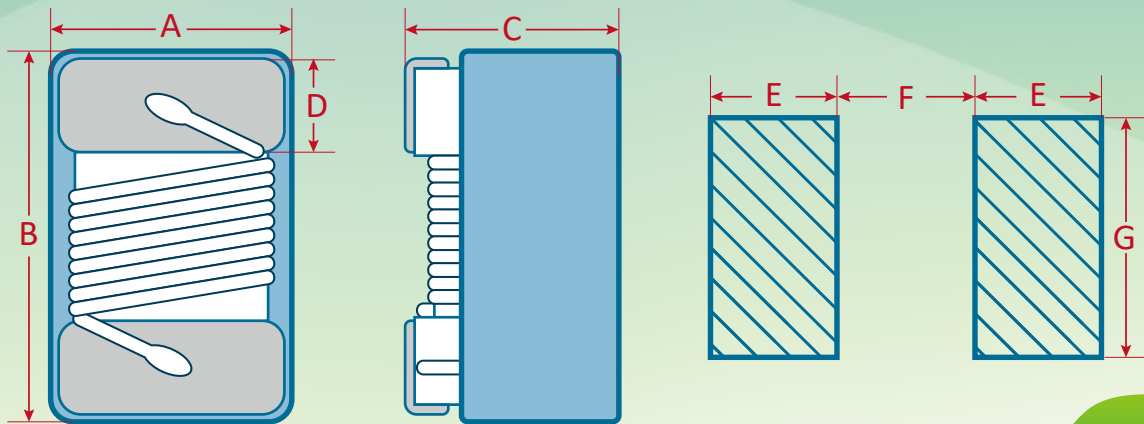


Item	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	a	b	φ <sub>c</sub>	d	e
FSR03-E	1.25±0.1	1.9±0.1	1.05±0.1	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
4,000								

# FSR Series

## Surface Mountable Type

Shape and Dimensions(mm):



RoHS

Item	A	B	C	D	E	F	G
FSR03-MLT2	1.15±0.1	1.75±0.1	1.0±0.05	0.20	0.64	0.64	1.02

### FSR03-MLT2

Part No.	Inductance		DCR(mΩ) ±20%	Isat(A)		Irms(A) Typ.	Tolerance (±%)
	(uH)	(MHz)		Typ.	Max.		
FSR03MT1R0-MLT2	1.0	1.0	160	1.90	1.50	1.80	±20%
FSR03MT2R2-MLT2	2.2	1.0	240	1.50	1.20	1.40	±20%
FSR03MT4R7-MLT2	4.7	1.0	500	1.00	0.80	0.90	±20%
FSR03MT100-MLT2	10	1.0	1050	0.70	0.56	0.63	±20%

### Ordering information

**FSR - 03 - M - T - 1R0 - MLT2**

(1) (2) (3) (4) (5)

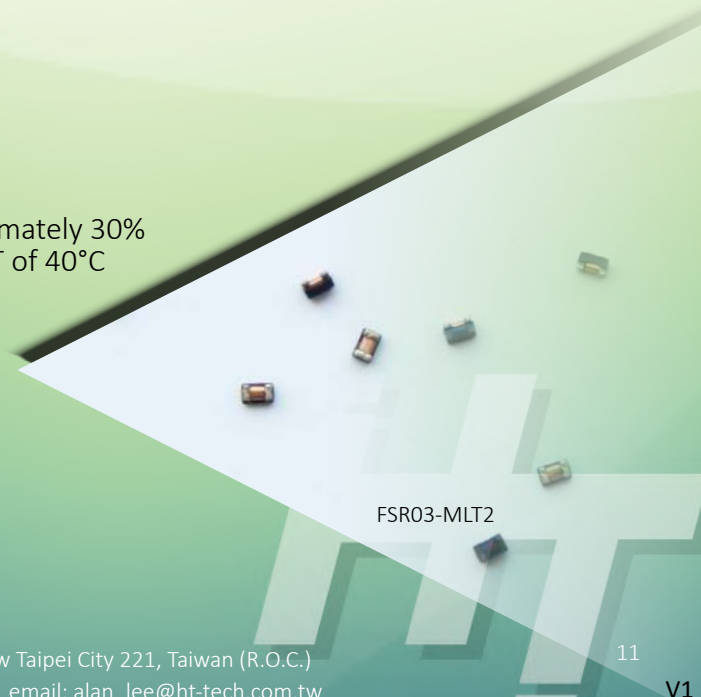
- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 03 is size
- ( 3 ) Tolerance : M=20%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R33 for 0.33uH, 1R0 for 1.0uH...

### Characteristics

- All test data is referred to 25°C ambient.
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Operating temperature range : -40°C to +125°C

### Test equipment

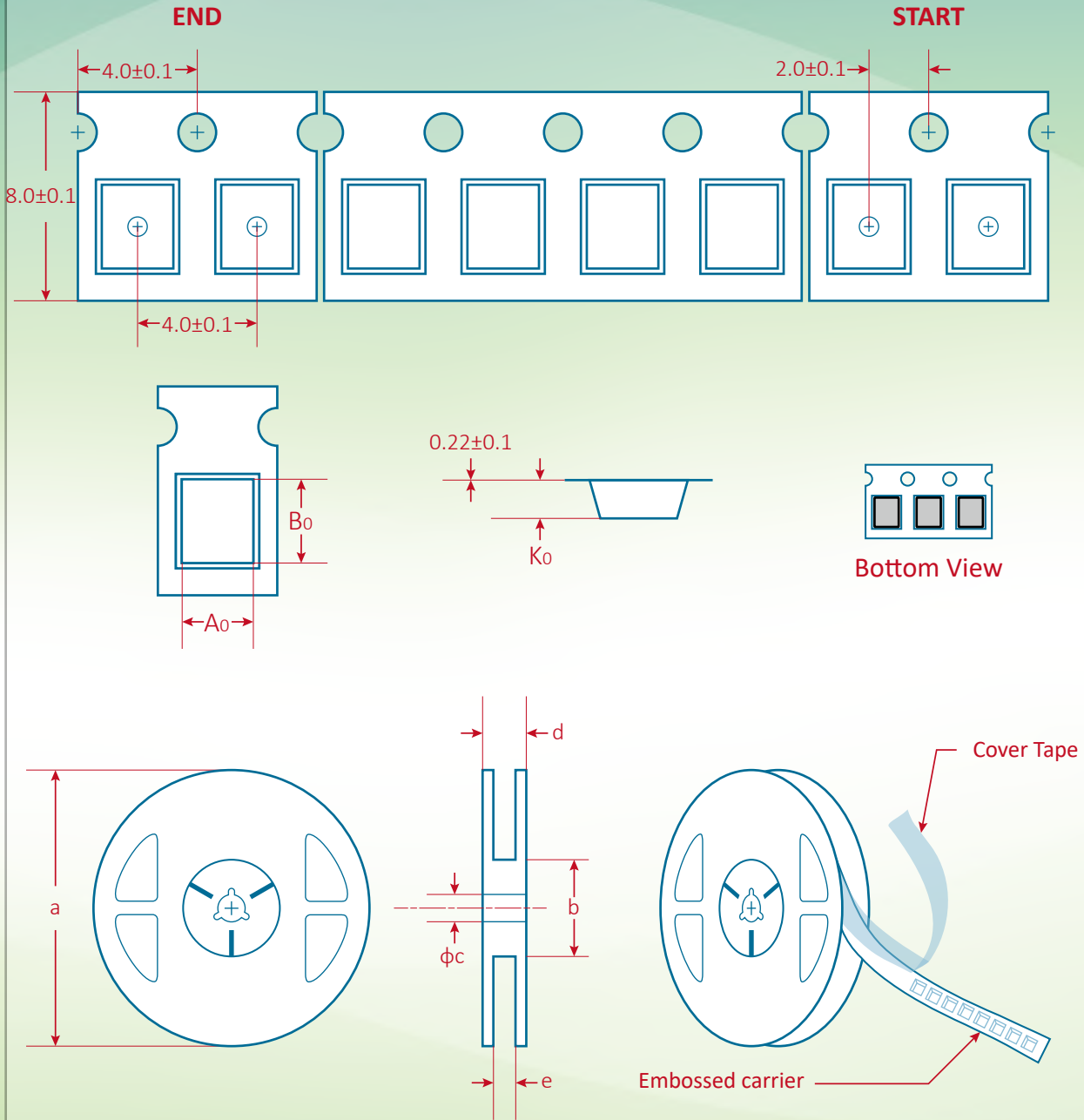
- Test Frequency : 1MHz
- L/Q/DCR : E4982A + Agilent 16197A



FSR03-MLT2

# Packing

Dimensions in mm

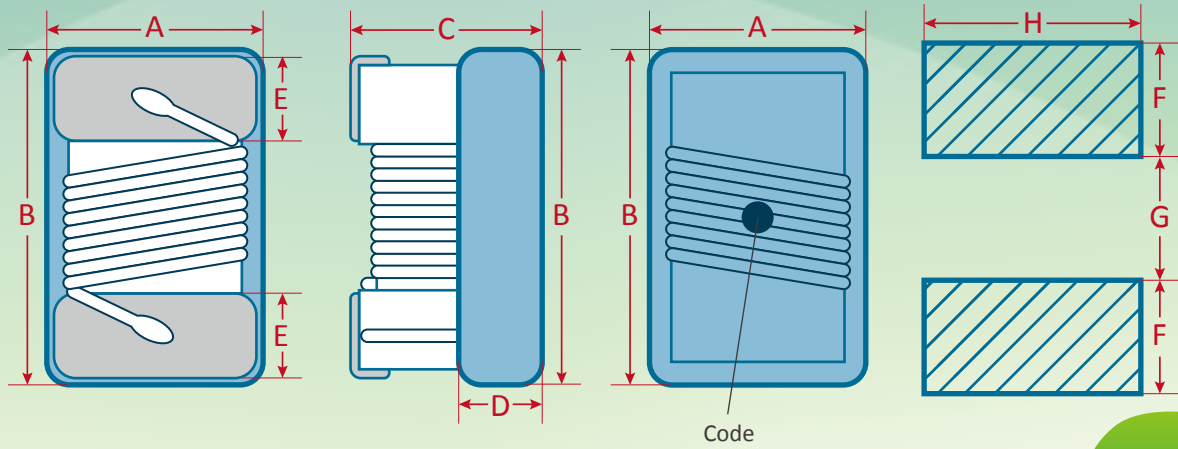


Item	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	a	b	φ <sub>c</sub>	d	e
FSR03-MLT2	1.25±0.1	1.9±0.1	1.05±0.1	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
4,000								

# FSR Series

## Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
FSR05	1.65 Max.	2.4 Max.	1.2±0.1	0.65 Ref.	0.44	1.02 Typ.	0.76 Typ.	1.78 Typ.
FSR05-B	1.65 Max.	2.4 Max.	1.2±0.1	0.65 Ref.	0.44±0.1	1.02 Typ.	0.76 Typ.	1.78 Typ.
FSR05-H	1.65 Max.	2.4 Max.	1.2±0.1	0.65 Ref.	0.44±0.1	1.02 Typ.	0.76 Typ.	1.78 Typ.

### FSR05

Part No.	Inductance		Q		DCR(mΩ) Max.	SRF(MHz) Min.	Idc(A) Max.	Tolerance (±%)	Color Coding
	(uH)	(MHz)	Min.	(MHz)					
FSR05KTR10	0.1	25	20	25	100	1400	1.7	10	White
FSR05KTR11	0.11	25	25	25	100	1200	1.7	10	White
FSR05KTR12	0.12	25	25	25	180	1000	1.5	10	Violet
FSR05KTR15	0.15	25	25	25	180	1000	1.4	10	Gray
FSR05KTR18	0.18	25	30	25	200	1000	1.4	10	Black
FSR05KTR22	0.22	25	30	25	250	830	1.35	10	Brown
FSR05KTR27	0.27	25	30	25	380	800	1.3	10	Red
FSR05KTR33	0.33	25	30	25	350	750	1.2	10	Orange
FSR05KTR39	0.39	25	30	25	350	700	1.16	10	Yellow
FSR05KTR47	0.47	25	30	25	400	690	1.1	10	Green
FSR05KTR56	0.56	25	30	25	400	640	1.04	10	Blue
FSR05KTR62	0.62	25	30	25	450	640	0.98	10	Brown
FSR05KTR68	0.68	25	30	25	500	510	0.9	10	Violet
FSR05KTR82	0.82	25	30	25	500	500	0.9	10	Gray
FSR05KTR91	0.91	25	30	25	550	500	0.9	10	Yellow
FSR05KT1R0	1.0	7.9	20	7.9	500	470	0.84	10	White
FSR05KT1R2	1.2	7.9	20	7.9	750	400	0.8	10	Black
FSR05KT1R5	1.5	7.9	25	7.9	1000	400	0.72	10	Brown
FSR05KT1R8	1.8	7.9	25	7.9	1000	230	0.66	10	Red
FSR05KT2R2	2.2	7.9	25	7.9	1050	200	0.6	10	Orange
FSR05KT2R7	2.7	7.9	25	7.9	1180	130	0.5	10	Yellow
FSR05KT3R3	3.3	7.9	25	7.9	1260	160	0.48	10	Green
FSR05KT3R9	3.9	7.9	25	7.9	1750	130	0.44	10	Blue




Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Tolerance (±%)	Color Coding
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.			
FSR05KT4R7	4.7	7.9	25	7.9	1870	120	0.39	10	Violet	
FSR05KT5R6	5.6	7.9	25	7.9	2000	90	0.34	10	Gray	
FSR05KT6R8	6.8	7.9	25	7.9	2150	55	0.3	10	White	
FSR05KT8R2	8.2	7.9	25	7.9	2370	40	0.28	10	Black	
FSR05KT100	10	2.5	16	2.5	2550	40	0.26	10	Brown	
FSR05KT120	12	2.5	16	2.5	2800	37	0.22	10	Red	
FSR05KT150	15	2.5	16	2.5	3800	30	0.2	10	Orange	
FSR05KT180	18	2.5	16	2.5	4480	23	0.18	10	Yellow	
FSR05KT220	22	2.5	16	2.5	6300	20	0.16	10	Green	
FSR05KT270	27	2.5	16	2.5	6850	19	0.14	10	Blue	
FSR05KT330	33	2.5	16	2.5	7600	18	0.12	10	Violet	
FSR05KT390	39	2.5	15	2.5	8200	16	0.1	10	Gray	
FSR05KT470	47	2.5	13	2.5	13100	13	0.06	10	White	

**FSR05-B 導磁係數 : 400μ**

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Tolerance (±%)	Color Coding
	(uH)	(MHz)	Typ.	(MHz)	±30%	Typ.	Typ.			
FSR05KTR47-B	0.47	7.9	14	7.9	120	850	1.4	1.5	10	Blue
FSR05KTR68-B	0.68	7.9	14	7.9	150	765	1.2	1.3	10	Gray
FSR05KT1R0-B	1.0	7.9	14	7.9	130	208	1.1	1.3	10	Black
FSR05KT1R2-B	1.2	7.9	14	7.9	160	159	0.96	1.27	10	Red
FSR05KT1R5-B	1.5	7.9	14	7.9	170	159	0.92	1.26	10	Brown
FSR05KT1R8-B	1.8	7.9	14	7.9	200	112	0.86	1.08	10	Orange
FSR05KT2R2-B	2.2	7.9	13	7.9	220	87	0.74	1.04	10	Red
FSR05KT2R7-B	2.7	7.9	13	7.9	250	72	0.68	1.04	10	Yellow
FSR05KT3R3-B	3.3	7.9	12	7.9	280	70	0.62	1.02	10	Orange
FSR05KT3R9-B	3.9	7.9	14	7.9	380	61	0.58	0.96	10	Green
FSR05KT4R7-B	4.7	7.9	14	7.9	430	51	0.52	0.84	10	Yellow
FSR05KT5R6-B	5.6	7.9	12	7.9	500	47	0.48	0.8	10	Blue
FSR05KT6R8-B	6.8	7.9	14	7.9	680	46	0.42	0.7	10	Green
FSR05KT8R2-B	8.2	7.9	13	7.9	730	33	0.4	0.68	10	Violet
FSR05KT100-B	10	2.5	14	2.5	850	31	0.36	0.56	10	Blue
FSR05KT120-B	12	2.5	14	2.5	900	30	0.34	0.46	10	Gray
FSR05KT150-B	15	2.5	15	2.5	1400	28	0.3	0.38	10	Violet
FSR05KT180-B	18	2.5	15	2.5	1550	27	0.28	0.36	10	White
FSR05KT220-B	22	2.5	15	2.5	1760	20	0.24	0.34	10	Gray
FSR05KT270-B	27	2.5	15	2.5	2000	17	0.22	0.3	10	Black
FSR05KT330-B	33	2.5	15	2.5	2350	17	0.2	0.3	10	White
FSR05KT470-B	47	2.5	14	2.5	3400	15	0.16	0.28	10	Black
FSR05KT560-B	56	2.5	14	2.5	4420	10	0.15	0.24	10	Yellow
FSR05KT680-B	68	2.5	14	2.5	4450	10	0.14	0.24	10	Brown
FSR05KT820-B	82	2.5	14	2.5	7500	10	0.1	0.18	10	Orange
FSR05KT101-B	100	1.0	10	1.0	7500	9.0	0.1	0.18	10	Red



**FSR05-H 導磁係數 : 800 $\mu$** 


Part No.	Inductance		Q		DCR(m $\Omega$ ) $\pm 30\%$	SRF(MHz) Typ.	Idc(A)		Tolerance ( $\pm\%$ )	Color Coding
	( $\mu$ H)	(MHz)	Typ.	(MHz)			$\downarrow 10\%$ Typ.	$\uparrow 40^\circ\text{C}$ Typ.		
FSR05KTR10-H	0.1	7.9	9.0	7.9	70	1700	2.4	2.6	10	Black
FSR05KTR15-H	0.15	7.9	12	7.9	80	1500	1.9	2.4	10	Brown
FSR05KTR22-H	0.22	7.9	12	7.9	100	1500	1.7	2.3	10	Red
FSR05KTR47-H	0.47	7.9	14	7.9	120	850	1.4	1.9	10	Blue
FSR05KTR56-H	0.56	7.9	14	7.9	150	360	1.2	1.7	10	Violet
FSR05KTR68-H	0.68	7.9	14	7.9	150	290	1.2	1.9	10	Gray
FSR05KTR82-H	0.82	7.9	14	7.9	150	208	1.1	1.7	10	White
FSR05KT1R0-H	1.0	7.9	14	7.9	130	208	1.1	1.8	10	Black
FSR05KT1R2-H	1.2	7.9	14	7.9	160	159	0.96	1.6	10	Red
FSR05KT1R5-H	1.5	7.9	14	7.9	170	159	0.92	1.5	10	Brown
FSR05KT1R8-H	1.8	7.9	14	7.9	200	112	0.86	1.5	10	Orange
FSR05KT2R2-H	2.2	7.9	13	7.9	220	87	0.74	1.4	10	Red
FSR05KT2R7-H	2.7	7.9	13	7.9	250	72	0.68	1.3	10	Yellow
FSR05KT3R3-H	3.3	7.9	12	7.9	280	70	0.62	1.3	10	Orange
FSR05KT3R9-H	3.9	7.9	14	7.9	380	61	0.58	1.1	10	Green
FSR05KT4R7-H	4.7	7.9	14	7.9	430	51	0.52	0.99	10	Yellow
FSR05KT5R6-H	5.6	7.9	12	7.9	500	47	0.48	0.93	10	Blue
FSR05KT6R8-H	6.8	7.9	14	7.9	680	46	0.42	0.81	10	Green
FSR05KT8R2-H	8.2	7.9	13	7.9	730	33	0.4	0.8	10	Violet
FSR05KT100-H	10	2.5	14	2.5	850	31	0.36	0.68	10	Blue
FSR05KT120-H	12	2.5	14	2.5	900	30	0.34	0.63	10	Gray
FSR05KT150-H	15	2.5	15	2.5	1400	28	0.3	0.56	10	Violet
FSR05KT180-H	18	2.5	15	2.5	1550	27	0.28	0.55	10	White
FSR05KT220-H	22	2.5	15	2.5	1760	20	0.24	0.51	10	Gray
FSR05KT270-H	27	2.5	15	2.5	2000	17	0.22	0.45	10	Black
FSR05KT330-H	33	2.5	15	2.5	2350	17	0.2	0.4	10	White
FSR05KT390-H	39	2.5	14	2.5	3350	15	0.18	0.38	10	Brown
FSR05KT470-H	47	2.5	14	2.5	3400	15	0.16	0.36	10	Black
FSR05KT560-H	56	2.5	14	2.5	4420	10	0.15	0.32	10	Yellow
FSR05KT680-H	68	2.5	14	2.5	4450	10	0.14	0.32	10	Brown
FSR05KT820-H	82	2.5	14	2.5	7500	10	0.1	0.24	10	Orange
FSR05KT101-H	100	1.0	10	1.0	7500	9.0	0.1	0.23	10	Red
FSR05KT221-H	220	1.0	8.0	1.0	23100	4.0	0.07	0.15	10	Blue



FSR05-H

## Ordering information

### FSR - 05 - K - T - 1R0

(1) (2) (3) (4) (5)

- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 05(0805) is size
- ( 3 ) Tolerance : K=10%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R10 for 0.1uH, 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

## Characteristics

### FSR05

- I<sub>dc</sub> for Inductance drop 10% from its value without current
- I<sub>rms</sub> for a 25°C rise above 25°C ambient
- Operating temperature range from -40°C to 85°C

### FSR05-B

- I<sub>dc</sub> for Inductance drop 10% from its value without current
- I<sub>rms</sub> for a 15°C rise above 25°C ambient
- Operating temperature range from -25°C to 85°C

### FSR05-H

- I<sub>dc</sub> for Inductance drop 10% from its value without current
- I<sub>rms</sub> for a 40°C rise above 25°C ambient
- Operating temperature range from -25°C to 85°C

## Test equipment

### FSR05

- L, Q, SRF : Agilent/ HP E4991A+ Agilent/ HP16197A,  
(The electrical specification test by the smallest gap position) or HP16193A
- DCR : Chroma Milliohmmeter 16502, or equivalent

### FSR05-B

- L, Q, SRF : Agilent/ HP 4291A or 4291B+Agilent/ HP 16197A
- I<sub>dc</sub> : Microtest LCR Meter 6379

### FSR05-H

- L, Q : Agilent E4991A RF Impedance/ Material Analyzer + Agilent 16197A  
(The electrical specification test by the smallest gap position) or HP16193A
- SRF : Agilent E4991A RF Impedance/ Material Analyzer + Agilent 16197A  
(The electrical specification test by the smallest gap position) or HP16193A
- DCR : Chroma 16502 Milliohm Meter, or equivalent

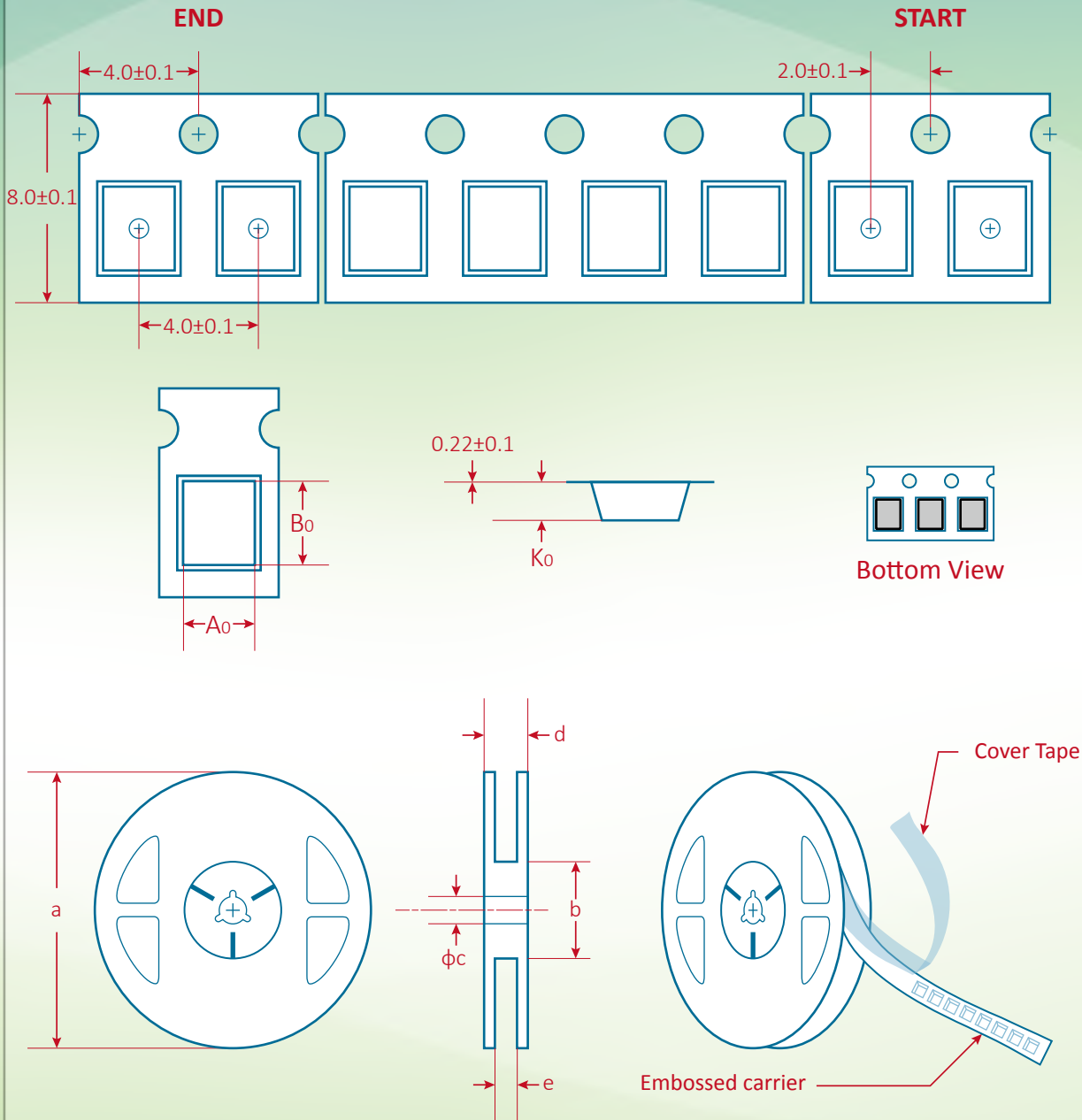


FSR05



# Packing

Dimensions in mm

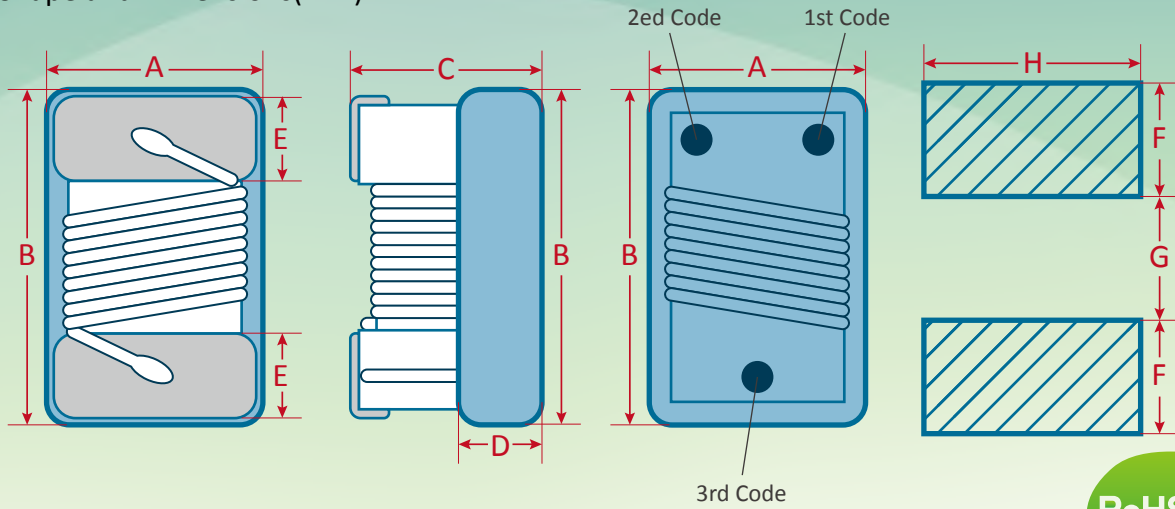


Item	Ao	Bo	Ko	a	b	φc	d	e
FSR05	1.65±0.1	2.4±0.1	1.3±0.1	180	60	13	14.4	8.4
FSR05-B	1.75±0.1	2.55±0.1	1.3±0.1	180	60	13	14.4	8.4
FSR05-H	1.72±0.1	2.55±0.1	1.3±0.1	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
2,000								

# FSR Series

## Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
FSR08	2.54 Max.	2.9 Max.	2.03 Max.	1.3 Ref.	0.5±0.1	1.02 Typ.	1.27 Typ.	2.54 Typ.
FSR08-H	2.54 Max.	2.9 Max.	2.0 Max.	1.3 Ref.	0.5±0.1	1.02 Typ.	1.27 Typ.	2.54 Typ.

### FSR08

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Idc(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	1st			2ed	3rd	
FSR08KTR10	0.1	25	25	25	200	930	1.3	10	Brown	Black	Brown		
FSR08KTR12	0.12	25	26	25	300	930	1.0	10	Brown	Red	Brown		
FSR08KTR15	0.15	25	26	25	300	930	1.0	10	Brown	Green	Brown		
FSR08KTR18	0.18	25	30	25	300	930	0.96	10	Brown	Gray	Brown		
FSR08KTR20	0.2	25	30	25	300	735	0.96	10	Red	Black	Brown		
FSR08KTR22	0.22	25	27	25	400	750	0.88	10	Red	Red	Brown		
FSR08KTR27	0.27	25	29	25	420	700	0.9	10	Red	Violet	Brown		
FSR08KTR33	0.33	25	30	25	420	600	0.9	10	Orange	Orange	Brown		
FSR08KTR39	0.39	25	30	25	450	480	0.92	10	Orange	White	Brown		
FSR08KTR47	0.47	25	30	25	500	470	0.92	10	Yellow	Violet	Brown		
FSR08KTR56	0.56	25	30	25	550	460	0.9	10	Green	Blue	Brown		
FSR08KTR62	0.62	25	30	25	550	460	0.9	10	Blue	Red	Brown		
FSR08KTR68	0.68	25	30	25	550	420	0.88	10	Blue	Gray	Brown		
FSR08KTR75	0.75	25	30	25	650	420	0.88	10	Violet	Green	Brown		
FSR08KTR82	0.82	25	30	25	650	380	0.84	10	Gray	Red	Brown		
FSR08KTR91	0.91	25	30	25	650	400	0.84	10	White	Brown	Brown		
FSR08KT1R0	1.0	7.9	25	7.9	600	300	0.8	10	Brown	Black	Red		
FSR08KT1R2	1.2	7.9	25	7.9	740	280	0.8	10	Brown	Red	Red		
FSR08KT1R5	1.5	7.9	25	7.9	850	245	0.78	10	Brown	Green	Red		
FSR08KT1R8	1.8	7.9	25	7.9	920	240	0.78	10	Brown	Gray	Red		
FSR08KT2R2	2.2	7.9	25	7.9	1100	205	0.76	10	Red	Red	Red		
FSR08KT2R7	2.7	7.9	25	7.9	1220	187	0.76	10	Red	Violet	Red		
FSR08KT3R3	3.3	7.9	25	7.9	1370	165	0.74	10	Orange	Orange	Red		
FSR08KT3R9	3.9	7.9	25	7.9	1660	144	0.7	10	Orange	White	Red		

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Idc(A) Max.	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	1st			2ed	3rd	
FSR08KT4R7	4.7	7.9	25	7.9	1680	110	0.66	10	10	Yellow	Violet	Red	
FSR08KT5R6	5.6	7.9	25	7.9	1750	88	0.64	10	10	Green	Blue	Red	
FSR08KT6R8	6.8	7.9	25	7.9	1850	70	0.64	10	10	Blue	Gray	Red	
FSR08KT8R2	8.2	7.9	25	7.9	2000	57	0.6	10	10	Gray	Red	Red	
FSR08KT100	10	7.9	25	7.9	2320	55	0.6	10	10	Brown	Black	Orange	
FSR08KT120	12	2.5	15	2.5	2990	52	0.56	10	10	Brown	Red	Orange	
FSR08KT150	15	2.5	15	2.5	3420	49	0.48	10	10	Brown	Green	Orange	
FSR08KT180	18	2.5	15	2.5	4650	48	0.42	10	10	Brown	Gray	Orange	
FSR08KT220	22	2.5	15	2.5	5120	25	0.42	10	10	Red	Red	Orange	
FSR08KT270	27	2.5	15	2.5	5760	23	0.42	10	10	Red	Violet	Orange	
FSR08KT330	33	2.5	15	2.5	6440	17	0.4	10	10	Orange	Orange	Orange	
FSR08KT390	39	2.5	15	2.5	6850	15	0.38	10	10	Orange	White	Orange	
FSR08KT470	47	2.5	14	2.5	9940	13	0.26	10	10	Yellow	Violet	Orange	
FSR08KT560	56	2.5	14	2.5	10700	10	0.28	10	10	Green	Blue	Orange	
FSR08KT680	68	2.5	14	2.5	12800	8.0	0.26	10	10	Blue	Gray	Orange	
FSR08KT820	82	2.5	14	2.5	18300	8.0	0.24	10	10	Gray	Red	Orange	
FSR08KT101	100	1.0	8.0	1.0	19600	7.0	0.2	10	10	Brown	Black	Yellow	

**FSR08-H** 

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Isat(A) Max.	Irms(A) Typ.	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Typ.	(MHz)	Max.	Min.	Max.	Typ.				(±%)	1st	2ed
FSR08KTR10-H	0.1	25	35	25	50	1500	3.2	2.7	10	Brown	Red	Brown		
FSR08KTR22-H	0.22	25	35	25	150	800	2.9	2.4	10	Red	Red	Brown		
FSR08KTR39-H	0.39	25	35	25	200	460	2.1	1.8	10	Orange	White	Brown		
FSR08KTR47-H	0.47	25	35	25	200	460	2.1	1.8	10	Yellow	Violet	Brown		
FSR08KTR56-H	0.56	25	35	25	260	360	1.8	1.5	10	Green	Blue	Brown		
FSR08KTR68-H	0.68	25	35	25	300	400	1.7	1.5	10	Blue	Gray	Brown		
FSR08KTR82-H	0.82	25	35	25	350	360	1.4	1.2	10	Gray	Red	Brown		
FSR08KT1R0-H	1.0	7.9	32	7.9	340	340	1.7	1.2	10	Brown	Black	Red		
FSR08KT1R2-H	1.2	7.9	25	7.9	250	300	1.6	1.1	10	Brown	Red	Red		
FSR08KT1R5-H	1.5	7.9	32	7.9	420	230	1.2	1.0	10	Brown	Green	Red		
FSR08KT1R8-H	1.8	7.9	27	7.9	450	180	1.1	0.8	10	Brown	Gray	Red		
FSR08KT2R2-H	2.2	7.9	27	7.9	500	140	1.1	0.9	10	Red	Red	Red		
FSR08KT2R7-H	2.7	7.9	27	7.9	550	130	1.0	0.9	10	Red	Violet	Red		
FSR08KT3R3-H	3.3	7.9	27	7.9	600	125	1.0	0.9	10	Orange	Orange	Red		
FSR08KT3R9-H	3.9	7.9	27	7.9	800	100	0.99	0.8	10	Orange	White	Red		
FSR08KT4R7-H	4.7	7.9	30	7.9	900	90	0.88	0.72	10	Yellow	Violet	Red		
FSR08KT5R6-H	5.6	7.9	27	7.9	1000	60	0.85	0.72	10	Green	Blue	Red		
FSR08KT6R8-H	6.8	7.9	27	7.9	1050	60	0.84	0.67	10	Blue	Gray	Red		
FSR08KT8R2-H	8.2	7.9	25	7.9	1200	55	0.81	0.64	10	Gray	Red	Red		
FSR08KT100-H	10	2.5	23	2.5	1550	55	0.7	0.54	10	Brown	Black	Orange		
FSR08KT120-H	12	2.5	23	2.5	2100	36	0.58	0.46	10	Brown	Red	Orange		
FSR08KT150-H	15	2.5	23	2.5	2380	36	0.58	0.46	10	Brown	Green	Orange		
FSR08KT180-H	18	2.5	23	2.5	2500	32	0.52	0.41	10	Brown	Gray	Orange		
FSR08KT220-H	22	2.5	23	2.5	2920	29	0.5	0.4	10	Red	Red	Orange		
FSR08KT270-H	27	2.5	23	2.5	3700	22	0.45	0.3	10	Red	Violet	Orange		
FSR08KT330-H	33	2.5	23	2.5	4100	21	0.42	0.3	10	Orange	Orange	Orange		
FSR08KT390-H	39	2.5	18	2.5	5500	15	0.34	0.27	10	Orange	White	Orange		
FSR08KT470-H	47	2.5	23	2.5	7800	17	0.31	0.22	10	Yellow	Violet	Orange		

Part No.	Inductance		Q		DCR(mΩ) Max.	SRF(MHz)		Isat(A) Max.	Irms(A) Typ.	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Typ.	(MHz)		Min.	Max.				1st	2ed	3rd
FSR08KT680-H	68	2.5	20	2.5	11500	9.0	0.22	0.18	10	Blue	Gray	Orange	
FSR08KT101-H	100	1.0	13	1.0	13200	4.0	0.21	0.17	10	Brown	Black	Yellow	
FSR08KT151-H	150	1.0	13	1.0	22500	3.0	0.17	0.16	10	Brown	Green	Yellow	
FSR08KT221-H	220	1.0	13	1.0	26500	3.0	0.16	0.1	10	Red	Red	Yellow	
FSR08KT331-H	330	1.0	13	1.0	32500	2.0	0.13	0.09	10	Orange	Orange	Yellow	

### Ordering information

#### FSR - 08 - K - T - 1R0

(1) (2) (3) (4) (5)

- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 08(1008) is size
- ( 3 ) Tolerance : K=10%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R10 for 0.1uH, 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

### Characteristics

#### FSR08

- Idc for Inductance drop 10% from its value without current
- Operating temperature range from -25°C to 85°C

#### FSR08-H

- Isat for Inductance drop 35% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -25°C to 85°C

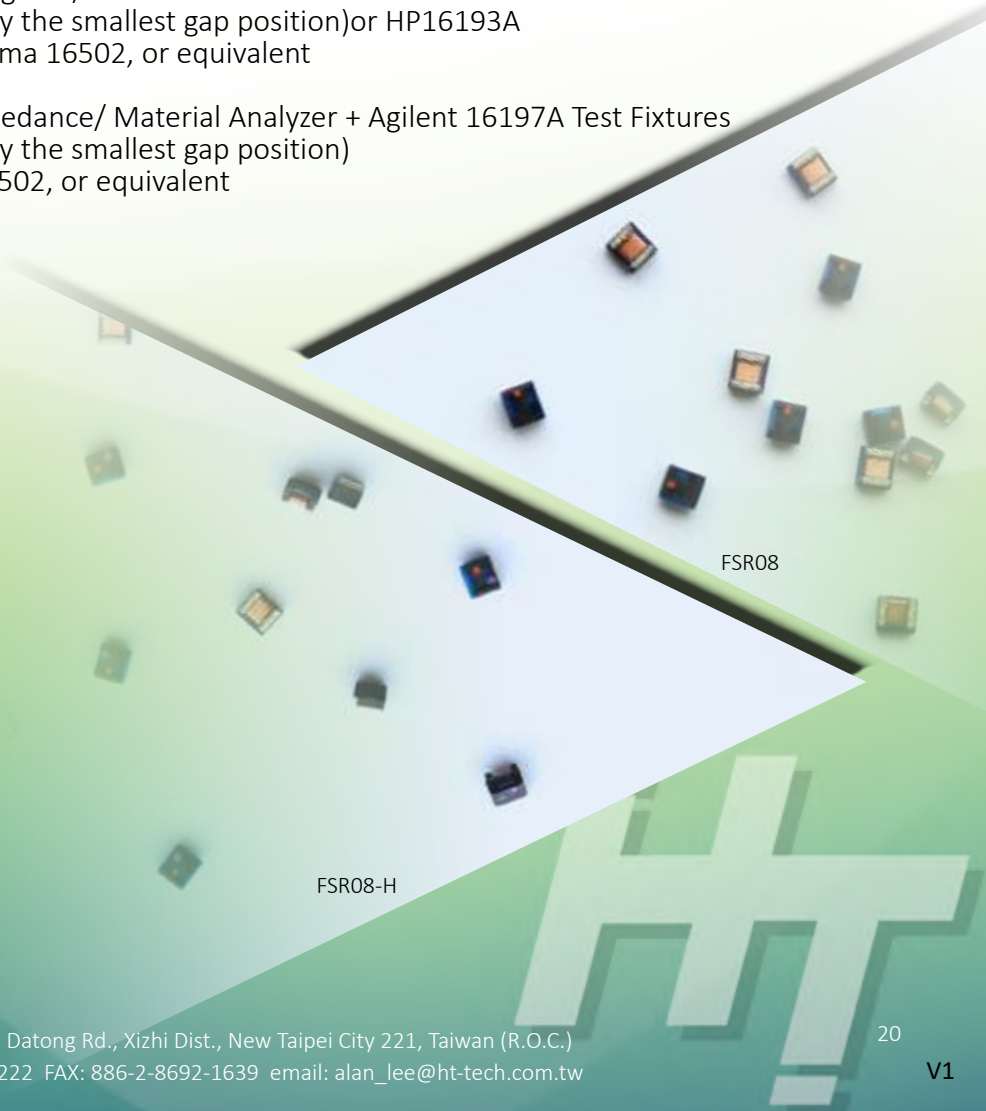
### Test equipment

#### FSR08

- L, Q, SRF : Agilent/ HP E4991A+ Agilent/ HP16197A  
(The electrical specification test by the smallest gap position)or HP16193A
- DCR : Digital Milliohm meter Chroma 16502, or equivalent

#### FSR08-H

- L, Q, SRF : Agilent E4991A RF Impedance/ Material Analyzer + Agilent 16197A Test Fixtures  
(The electrical specification test by the smallest gap position)
- DCR : Chroma Milliohm meter 16502, or equivalent

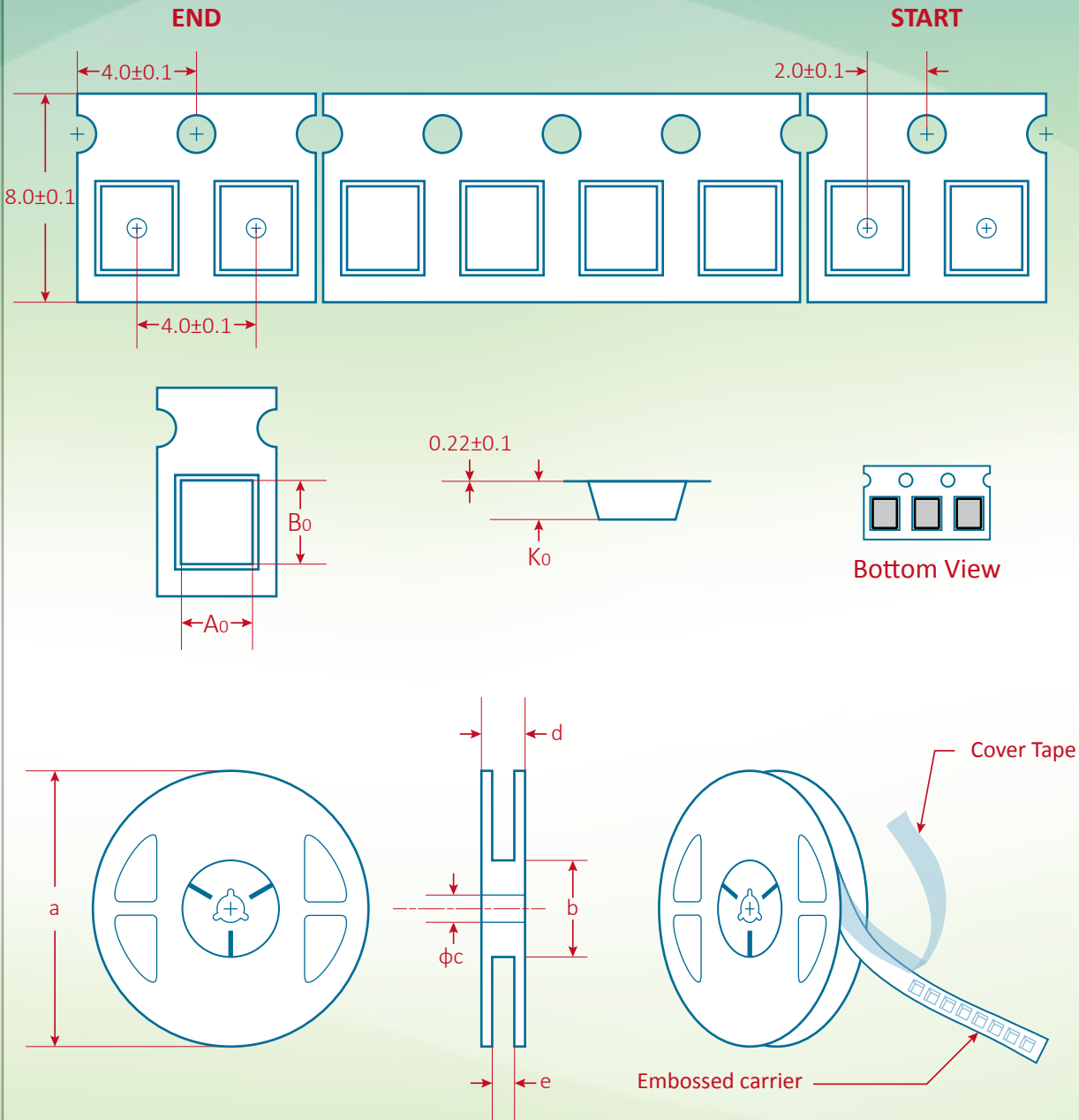


FSR08

FSR08-H

# Packing

Dimensions in mm

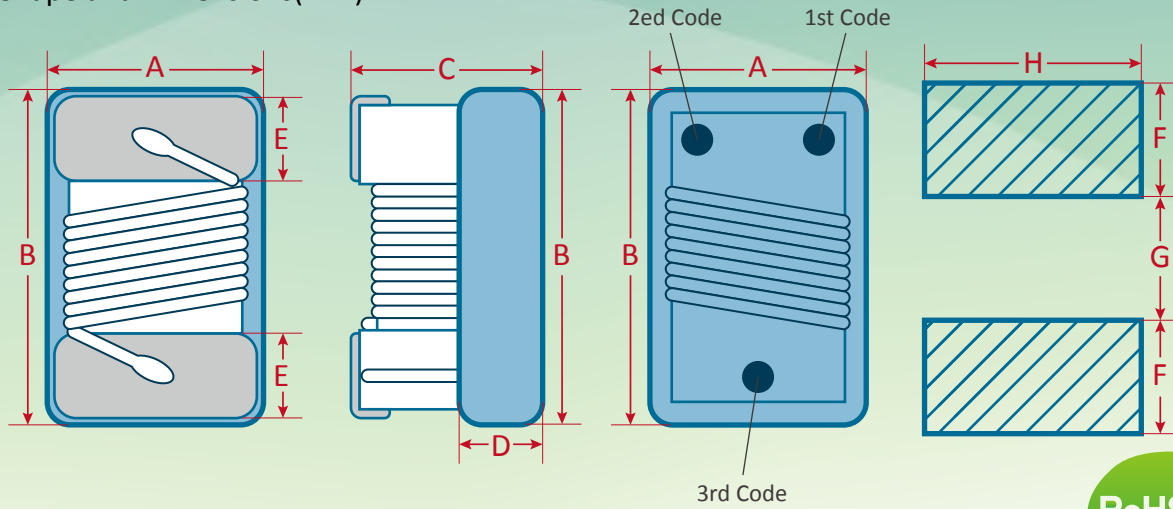


Item	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	a	b	$\phi_c$	d	e
FSR08	2.5±0.1	2.85±0.1	2.0±0.1	180	60	13	14.4	8.4
FSR08-H	2.5±0.1	2.85±0.1	2.0±0.1	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
2,000								

# FSR Series

## Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
FSR10	2.9 Max.	3.6 Max.	2.5 Max.	1.1 Ref.	0.5±0.1	1.2 Typ.	2.0 Typ.	2.7 Typ.
FSR10-H	2.9 Max.	3.6 Max.	2.5 Max.	1.1 Ref.	0.5±0.1	1.2 Typ.	2.0 Typ.	2.7 Typ.

### FSR10



Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)	Idc(A) Max.	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Typ.	1st			2ed	3rd	
FSR10KTR12	0.12	25	40	25	70	1000	2.0	10	Brown	Red	Brown	
FSR10KTR22	0.22	25	40	25	180	600	1.7	10	Red	Red	Brown	
FSR10KTR27	0.27	25	40	25	230	600	1.6	10	Red	Violet	Brown	
FSR10KTR29	0.29	25	40	25	250	550	1.55	10	Red	White	Brown	
FSR10KTR33	0.33	25	40	25	270	500	1.5	10	Orange	Orange	Brown	
FSR10KTR39	0.39	25	40	25	300	500	1.5	10	Orange	White	Brown	
FSR10KTR56	0.56	25	35	25	350	440	1.4	10	Green	Blue	Brown	
FSR10KTR82	0.82	25	35	25	380	340	1.3	10	Gray	Red	Brown	
FSR10KT1R0	1.0	7.9	35	7.9	420	320	1.2	10	Brown	Black	Red	
FSR10KT1R2	1.2	7.9	35	7.9	470	280	1.1	10	Brown	Red	Red	
FSR10KT1R5	1.5	7.9	35	7.9	500	250	1.1	10	Brown	Green	Red	
FSR10KT1R8	1.8	7.9	40	7.9	620	203	1.0	10	Brown	Gray	Red	
FSR10KT2R2	2.2	7.9	33	7.9	650	200	1.0	10	Red	Red	Red	
FSR10KT2R7	2.7	7.9	40	7.9	650	200	1.0	10	Red	Violet	Red	
FSR10KT3R0	3.0	7.9	40	7.9	780	180	0.8	10	Orange	Black	Red	
FSR10KT3R3	3.3	7.9	30	7.9	830	146	1.2	10	Orange	Orange	Red	
FSR10KT3R9	3.9	7.9	30	7.9	1740	139	0.9	10	Orange	White	Red	
FSR10KT4R7	4.7	7.9	35	7.9	1900	124	0.8	10	Yellow	Violet	Red	
FSR10KT5R6	5.6	7.9	30	7.9	2050	114	0.7	10	Green	Blue	Red	
FSR10KT6R8	6.8	7.9	30	7.9	1370	109	0.45	10	Blue	Gray	Red	
FSR10KT8R2	8.2	7.9	30	7.9	1600	90	0.6	10	Gray	Red	Red	
FSR10KT100	10	2.5	23	2.5	1700	90	0.59	10	Brown	Black	Orange	
FSR10KT150	15	2.5	25	2.5	2220	67	0.34	10	Brown	Green	Orange	
FSR10KT180	18	2.5	25	2.5	2420	57	0.33	10	Brown	Gray	Orange	

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)	Idc(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Typ.	Max.	1st		2ed	3rd	
FSR10KT220	22	2.5	25	2.5	2660	48	0.3	10	Red	Red	Orange	
FSR10KT270	27	2.5	25	2.5	2990	38	0.25	10	Red	Violet	Orange	
FSR10KT330	33	2.5	25	2.5	3240	26	0.22	10	Orange	Orange	Orange	
FSR10KT390	39	2.5	25	2.5	3610	24	0.195	10	Orange	White	Orange	
FSR10KT470	47	2.5	25	2.5	3960	22	0.195	10	Yellow	Violet	Orange	
FSR10KT560	56	2.5	25	2.5	4360	20	0.19	10	Green	Blue	Orange	
FSR10KT680	68	2.5	23	2.5	4500	15	0.34	10	Blue	Gray	Orange	
FSR10KT820	82	2.5	23	2.5	5950	15	0.28	10	Gray	Red	Orange	
FSR10KT101	100	1.0	15	1.0	6620	14	0.25	10	Brown	Black	Yellow	
FSR10KT121	120	1.0	15	1.0	7530	11	0.19	10	Brown	Red	Yellow	
FSR10KT151	150	1.0	15	1.0	8290	11	0.135	10	Brown	Green	Yellow	
FSR10KT181	180	1.0	15	1.0	11530	10	0.1	10	Brown	Gray	Yellow	
FSR10KT221	220	1.0	15	1.0	12480	8.0	0.08	10	Red	Red	Yellow	

**FSR10-H** 

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)	Isat(A)	Irms(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	Typ.	1st		2ed	3rd	
FSR10KTR27-H	0.27	25	40	25	80	500	3.9	3.4	10	Red	Violet	Brown	
FSR10KTR33-H	0.33	25	40	25	90	500	3.4	2.6	10	Orange	Orange	Brown	
FSR10KTR39-H	0.39	25	40	25	90	500	3.1	2.2	10	Orange	White	Brown	
FSR10KTR47-H	0.47	25	40	25	90	500	3.2	2.4	10	Yellow	Violet	Brown	
FSR10KTR56-H	0.56	25	40	25	100	500	2.9	2.3	10	Green	Blue	Brown	
FSR10KTR68-H	0.68	25	40	25	120	450	2.5	2.3	10	Blue	Gray	Brown	
FSR10KTR82-H	0.82	25	40	25	105	450	2.4	2.3	10	Gray	Red	Brown	
FSR10KTR91-H	0.91	25	45	25	165	410	2.1	1.6	10	White	Brown	Brown	
FSR10KT1R0-H	1.0	7.9	35	7.9	125	340	2.4	1.75	10	Brown	Black	Red	
FSR10KT1R2-H	1.2	7.9	35	7.9	135	280	2.4	1.65	10	Brown	Red	Red	
FSR10KT1R5-H	1.5	7.9	30	7.9	145	160	2.1	1.75	10	Brown	Green	Red	
FSR10KT1R8-H	1.8	7.9	30	7.9	160	120	2.1	1.45	10	Brown	Gray	Red	
FSR10KT2R0-H	2.0	7.9	30	7.9	165	110	1.8	1.45	10	Red	Black	Red	
FSR10KT2R2-H	2.2	7.9	30	7.9	170	100	1.8	1.45	10	Red	Red	Red	
FSR10KT2R5-H	2.5	7.9	30	7.9	190	80	1.7	1.4	10	Red	Green	Red	
FSR10KT2R7-H	2.7	7.9	30	7.9	185	75	1.5	1.3	10	Red	Violet	Red	
FSR10KT3R3-H	3.3	7.9	30	7.9	210	70	1.6	1.3	10	Orange	Orange	Red	
FSR10KT4R7-H	4.7	7.9	28	7.9	300	55	1.3	1.1	10	Yellow	Violet	Red	
FSR10KT5R6-H	5.6	7.9	28	7.9	350	50	1.1	1.0	10	Green	Blue	Red	
FSR10KT6R8-H	6.8	7.9	28	7.9	370	45	1.1	1.0	10	Blue	Gray	Red	
FSR10KT8R2-H	8.2	7.9	28	7.9	470	45	0.94	0.9	10	Gray	Red	Red	
FSR10KT100-H	10	2.5	22	2.5	500	47	0.99	0.8	10	Brown	Black	Orange	
FSR10KT120-H	12	2.5	22	2.5	680	42	0.77	0.7	10	Brown	Red	Orange	
FSR10KT150-H	15	2.5	22	2.5	720	34	0.74	0.66	10	Brown	Green	Orange	
FSR10KT180-H	18	2.5	22	2.5	950	28	0.63	0.6	10	Brown	Gray	Orange	
FSR10KT220-H	22	2.5	22	2.5	1100	25	0.64	0.55	10	Red	Red	Orange	
FSR10KT270-H	27	2.5	20	2.5	1250	18	0.6	0.51	10	Red	Violet	Orange	
FSR10KT330-H	33	2.5	20	2.5	1370	13	0.49	0.42	10	Orange	Orange	Orange	
FSR10KT390-H	39	2.5	20	2.5	1850	13	0.4	0.4	10	Orange	White	Orange	
FSR10KT470-H	47	2.5	20	2.5	1880	12	0.47	0.41	10	Yellow	Violet	Orange	
FSR10KT560-H	56	2.5	22	2.5	2750	10	0.36	0.34	10	Green	Blue	Orange	
FSR10KT680-H	68	2.5	22	2.5	3000	10	0.38	0.33	10	Blue	Gray	Orange	
FSR10KT820-H	82	2.5	22	2.5	4100	10	0.3	0.28	10	Gray	Red	Orange	

Part No.	Inductance		Q		DCR(mΩ)	SRF(MHz)	Isat(A)		Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	Typ.		1st	2ed	3rd
FSR10KT101-H	100	1.0	15	1.0	4682	8.0	0.31	0.26	10	Brown	Black	Yellow
FSR10KT121-H	120	1.0	15	1.0	5800	7.0	0.22	0.24	10	Brown	Red	Yellow
FSR10KT151-H	150	1.0	13	1.0	6102	7.0	0.26	0.23	10	Brown	Green	Yellow
FSR10KT181-H	180	1.0	13	1.0	7100	3.0	0.25	0.21	10	Brown	Gray	Yellow
FSR10KT221-H	220	1.0	13	1.0	7650	3.0	0.22	0.19	10	Red	Red	Yellow
FSR10KT271-H	270	1.0	13	1.0	12520	3.0	0.15	0.17	10	Red	Violet	Yellow
FSR10KT331-H	330	1.0	13	1.0	12620	3.0	0.17	0.16	10	Orange	Orange	Yellow
FSR10KT391-H	390	1.0	13	1.0	23000	3.0	0.12	0.14	10	Orange	White	Yellow
FSR10KT471-H	470	1.0	13	1.0	25000	3.0	0.135	0.13	10	Yellow	Violet	Yellow
FSR10KT501-H	500	1.0	13	1.0	25900	2.0	0.1	0.095	10	Green	Black	Yellow
FSR10KT561-H	560	1.0	13	1.0	27000	2.0	0.1	0.095	10	Green	Blue	Yellow
FSR10KT681-H	680	1.0	13	1.0	31000	2.0	0.1	0.095	10	Blue	Gray	Yellow
FSR10KT821-H	820	1.0	10	1.0	42000	2.0	0.1	0.095	10	Gray	Red	Yellow
FSR10KT102-H	1000	1.0	10	1.0	46000	2.0	0.095	0.095	10	Brown	Black	Red

### Ordering information

#### FSR - 10 - K - T - 1R0

(1) (2) (3) (4) (5)

- (1) Type : Surface Mountable Type
- (2) Size : 10(1210) is size
- (3) Tolerance : K=10%
- (4) Packaging style : Taping Reel
- (5) Inductance : R12 for 0.12uH, 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH, 102 for 1000uH...

### Characteristics

#### FSR10

- Idc for Inductance drop 10% from its value without current
- Irms for a 25°C rise above 25°C ambient
- Operating temperature range from -25°C to 85°C

#### FSR10-H

- Isat : Idc obtained when Inductance drop 35% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -25°C to 105°C

### Test equipment

#### FSR10

- L, Q, SRF : Agilent/ HP E4991A+ Agilent/ HP16197A
- DCR : Chroma Milliohm meter 16502, or equivalent

#### FSR10-H

- L, Q, SRF : Agilent E4991A RF Impedance/ Material Analyzer + Agilent 16197A Test Fixtures (The electrical specification test by the smallest gap position)
- DCR : Digital Milliohm meter Chroma 16502, or equivalent

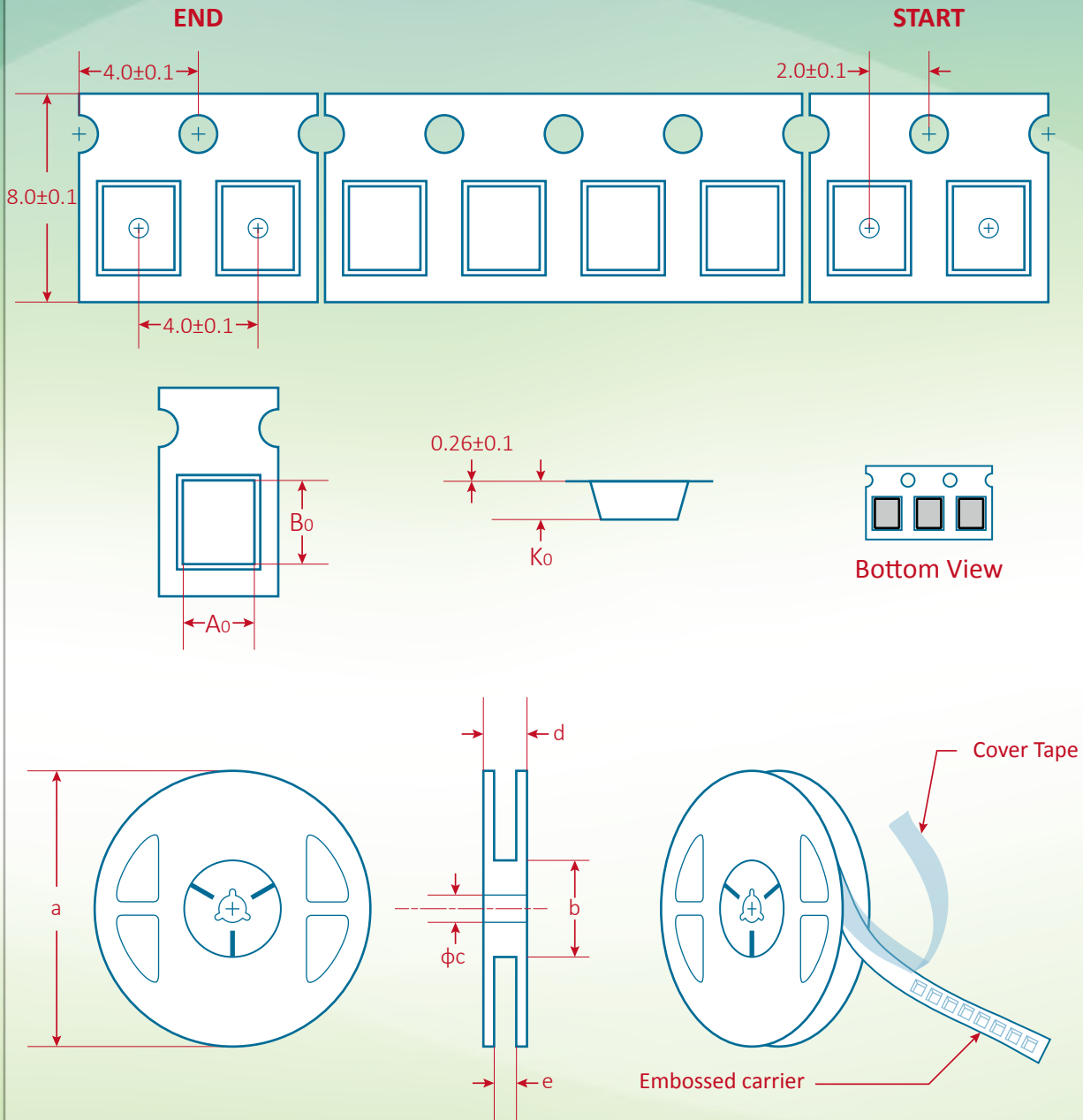
FSR10

FSR10-H



# Packing

Dimensions in mm



Item	$A_0$	$B_0$	$K_0$	$a$	$b$	$\phi_c$	$d$	$e$
FSR10	$2.88 \pm 0.1$	$3.72 \pm 0.1$	$2.5 \pm 0.1$	180	60	13	14.4	8.4
FSR10-H	$2.88 \pm 0.1$	$3.72 \pm 0.1$	$2.5 \pm 0.1$	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
2,000								