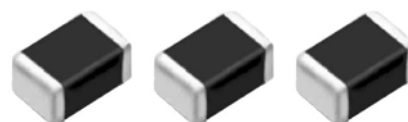


### ◆ Features

- 1.The monolithic construction performs high reliability and ensures a closed magnetic flux in a component avoids magnetic leakage and interference
- 2.Allow for higher mounting density

### ◆ Application

RF and wireless communication, information technology equipment which includes computer, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, audio equipment, PDAs, keyless remote system and low-voltage power supply modules.



### ◆ How to Order

SWEL 3216 Q 4R7 K I

(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Chip Size(mm): Length x Width
- (3) Material Code:L & C & Q & S & T
- (4) Inductance : R47 =0.47uH  
4R7 = 4.7uH

(5) Tolerance: J= ±5%, K= ±10%, S= ±0.3nH

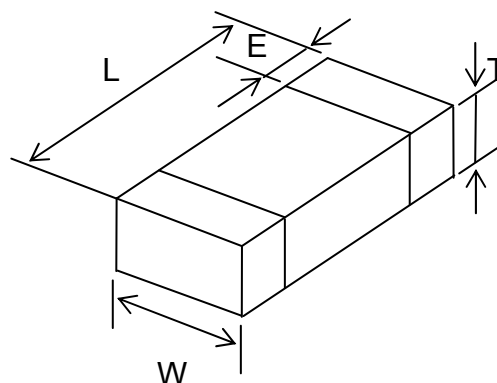
(6) Packaging: T = Tape reel

### ◆ Dimensions

Unit: mm

Size(EIA)	1608 (0603)	2012_09 (0805)	2012_12 (0805)	3216 (1206)
L	1.60±0.15	2.00±0.20	2.00±0.20	3.20±0.20
W	0.80±0.15	1.25±0.20	1.25±0.20	1.60±0.20
T	0.80±0.15	0.90±0.20	1.25±0.20	1.10±0.20
E	0.30±0.20	0.50±0.30	0.50±0.30	0.50±0.30

The thickness of 2012 specification under 4.7  $\mu$  H is 0.90 mm+/-0.20mm



●All Specifications are subject to change without notice.

## ◆ Specifications

Part Number	Inductance (μH)	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR Max. (Ω)	Rated Current Max. (mA)
<b>1608 (EIA 0603)</b>						
SWEL1608LR10K	0.10	15	25	240	0.50	50
SWEL1608LR12K	0.12	15	25	235	0.50	50
SWEL1608LR15K	0.15	15	25	205	0.60	50
SWEL1608LR18K	0.18	15	25	190	0.60	50
SWEL1608LR22K	0.22	15	25	170	0.80	50
SWEL1608LR27K	0.27	15	25	155	0.80	50
SWEL1608LR33K	0.33	15	25	140	0.80	35
SWEL1608LR39K	0.39	15	25	125	1.00	35
SWEL1608LR47K	0.47	15	25	120	1.00	35
SWEL1608LR56K	0.56	15	25	110	1.55	35
SWEL1608LR68K	0.68	15	25	100	1.70	35
SWEL1608LR82K	0.82	15	25	95	2.10	35
SWEL1608Q1R0K	1.0	35	10	85	0.60	25
SWEL1608Q1R2K	1.2	35	10	70	0.80	25
SWEL1608Q1R5K	1.5	35	10	65	0.80	25
SWEL1608Q1R8K	1.8	35	10	60	0.80	25
SWEL1608Q2R2K	2.2	35	10	55	1.00	15
SWEL1608Q2R7K	2.7	35	10	50	1.20	15
SWEL1608Q3R3K	3.3	35	10	45	1.40	15
SWEL1608Q3R9K	3.9	40	10	42	1.60	15
SWEL1608Q4R7K	4.7	40	10	40	1.80	15
SWEL1608Q5R6K	5.6	40	4	35	1.80	5
SWEL1608S6R8K	6.8	40	4	20	1.90	5
SWEL1608S8R2K	8.2	40	4	18	2.10	5
SWEL1608S100K	10	30	2	17	1.85	3
SWEL1608T120K	12	30	2	15	2.10	3
<b>2012 (EIA 0805)</b>						
SWEL2012LR10K	0.10	20	25	255	0.30	250
SWEL2012LR12K	0.12	20	25	250	0.30	250
SWEL2012LR15K	0.15	20	25	230	0.40	250
SWEL2012LR18K	0.18	20	25	210	0.40	250
SWEL2012LR22K	0.22	20	25	195	0.50	250
SWEL2012LR27K	0.27	20	25	170	0.50	250
SWEL2012LR33K	0.33	20	25	165	0.50	250
SWEL2012LR39K	0.39	25	25	155	0.60	200
SWEL2012LR47K	0.47	25	25	140	0.60	200
SWEL2012LR56K	0.56	25	25	130	0.70	150
SWEL2012LR68K	0.68	25	25	120	0.80	150
SWEL2012LR82K	0.82	25	25	115	1.00	150

●All Specifications are subject to change without notice.

Part Number	Inductance (μH)	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR Max. (Ω)	Rated Current Max. (mA)
<b>2012 (EIA 0805)</b>						
SWEL2012Q1R0K	1.0	45	10	85	0.40	50
SWEL2012Q1R2K	1.2	45	10	75	0.50	50
SWEL2012Q1R5K	1.5	45	10	65	0.50	50
SWEL2012Q1R8K	1.8	45	10	60	0.60	50
SWEL2012Q2R2K	2.2	45	10	55	0.60	30
SWEL2012Q2R7K	2.7	45	10	50	0.70	30
SWEL2012Q3R3K	3.3	45	10	45	0.80	30
SWEL2012Q3R9K	3.9	45	10	44	0.90	30
SWEL2012Q4R7K	4.7	45	10	41	1.00	30
SWEL2012Q5R6K	5.6	50	4	37	0.90	15
SWEL2012S6R8K	6.8	50	4	34	1.00	15
SWEL2012S8R2K	8.2	50	4	30	1.10	15
SWEL2012S100K	10	50	2	28	1.00	15
SWEL2012T120K	12	50	2	26	1.10	15
SWEL2012T150K	15	35	1	22	0.80	5
SWEL2012T180K	18	35	1	21	0.90	5
SWEL2012T220K	22	35	1	19	1.10	5
<b>3216 (EIA 1206)</b>						
SWEL3216LR10K	0.10	20	25	270	0.25	250
SWEL3216LR12K	0.12	20	25	250	0.30	250
SWEL3216LR15K	0.15	20	25	200	0.30	250
SWEL3216LR18K	0.18	20	25	185	0.40	250
SWEL3216LR22K	0.22	20	25	170	0.40	250
SWEL3216LR27K	0.27	20	25	150	0.50	250
SWEL3216LR33K	0.33	20	25	145	0.50	250
SWEL3216LR39K	0.39	25	25	135	0.50	200
SWEL3216LR47K	0.47	25	25	125	0.60	200
SWEL3216LR56K	0.56	25	25	115	0.70	150
SWEL3216LR68K	0.68	25	25	105	0.80	150
SWEL3216LR82K	0.82	25	25	100	0.90	150
SWEL3216Q1R0K	1.0	45	10	87	0.40	100
SWEL3216Q1R2K	1.2	45	10	75	0.50	100
SWEL3216Q1R5K	1.5	45	10	69	0.50	50
SWEL3216Q1R8K	1.8	45	10	64	0.50	50
SWEL3216Q2R2K	2.2	45	10	58	0.60	50
SWEL3216Q2R7K	2.7	45	10	52	0.60	50
SWEL3216Q3R3K	3.3	45	10	48	0.70	50
SWEL3216Q3R9K	3.9	45	10	44	0.80	50
SWEL3216Q4R7K	4.7	45	10	41	0.90	50
SWEL3216Q5R6K	5.6	50	4	32	0.80	25
SWEL3216S6R8K	6.8	50	4	29	0.90	25
SWEL3216S8R2K	8.2	50	4	26	1.00	25
SWEL3216S100K	10	50	2	26	0.60	25
SWEL3216T120K	12	50	2	26	0.60	15
SWEL3216T150K	15	50	1	22	0.70	5
SWEL3216T180K	18	50	1	21	0.70	5
SWEL3216T220K	22	50	1	19	0.90	5

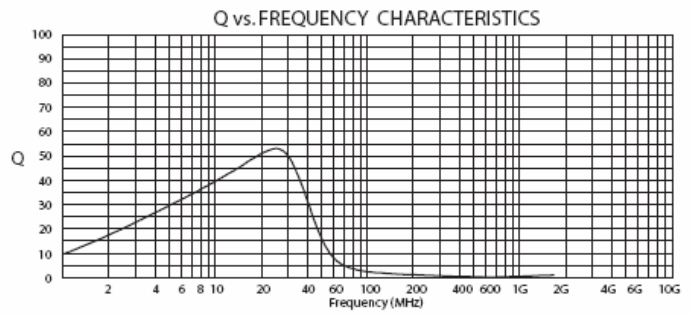
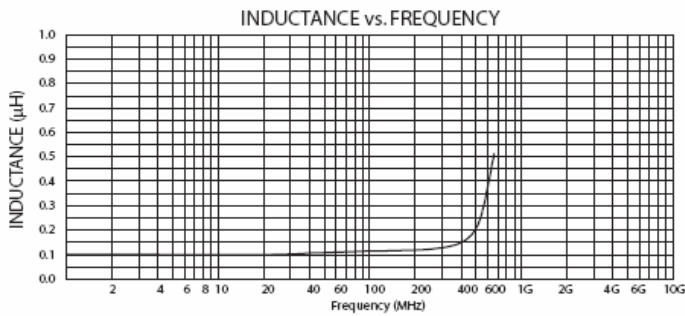
●All Specifications are subject to change without notice.

◆ General Technical Data

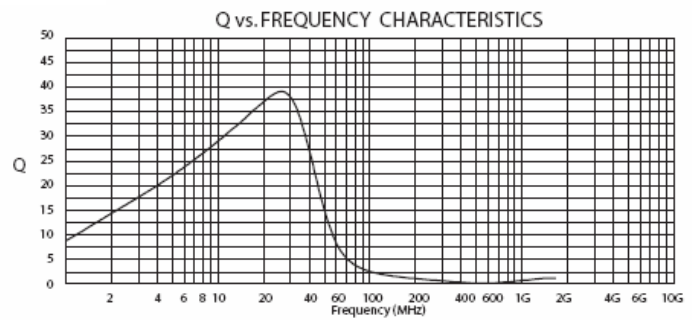
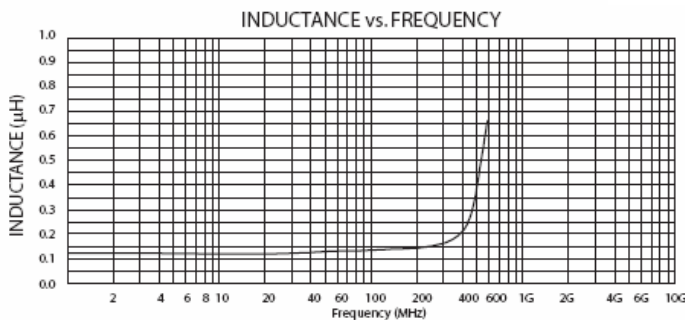
Operating Temperature Range	-55°C ~ +125°C
Storage Temperature (on board)	-40°C ~ +85°C
Storage Condition	Less than 40°C and 70% RH
Soldering Method	Reflow or Wave Soldering

◆ Characteristics

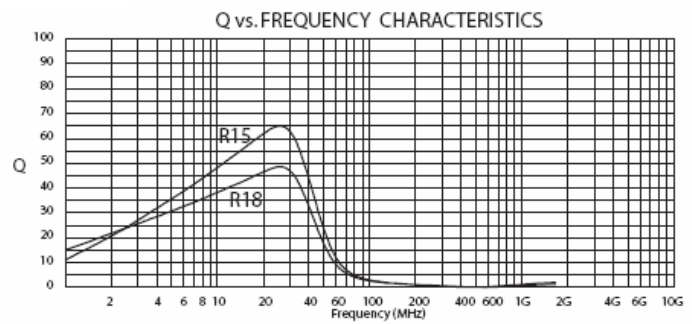
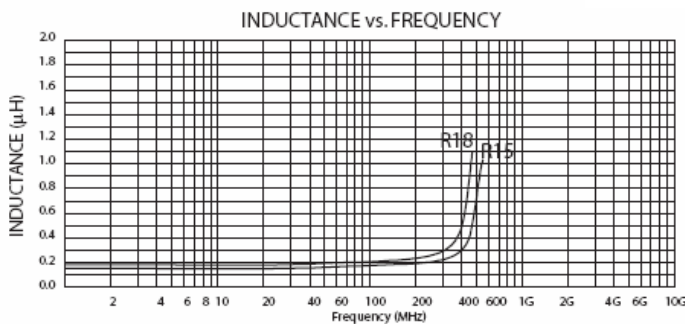
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SWEL1608LR12

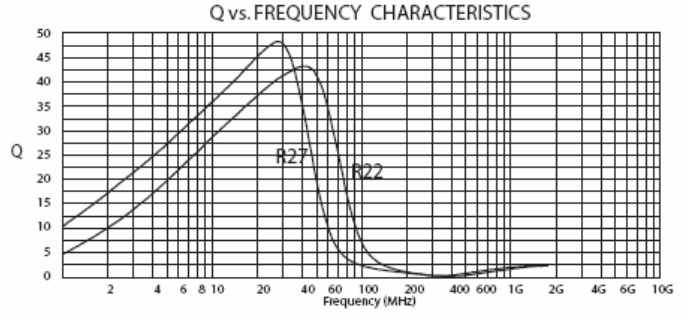
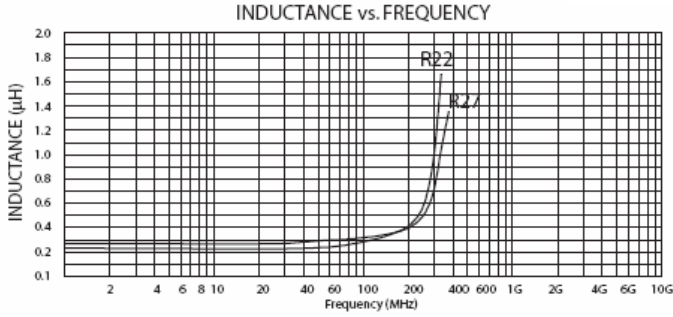


SWEL1608LR15 & R18

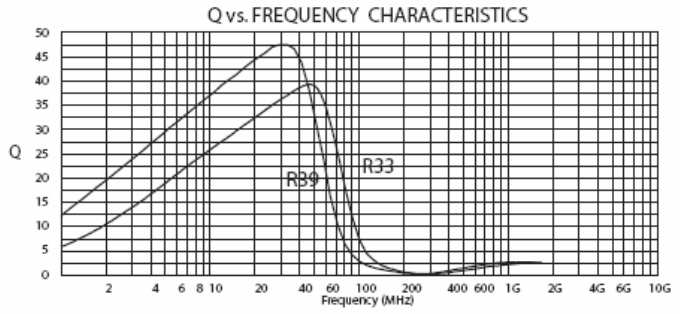
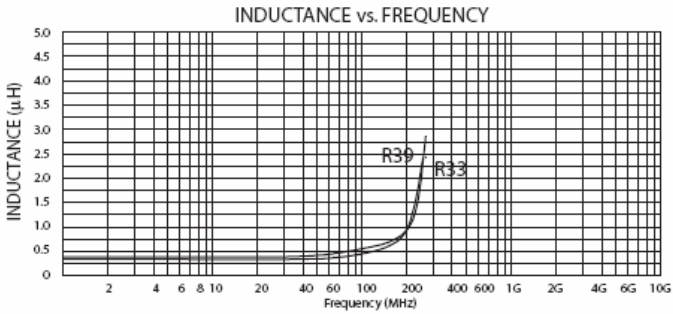


●All Specifications are subject to change without notice.

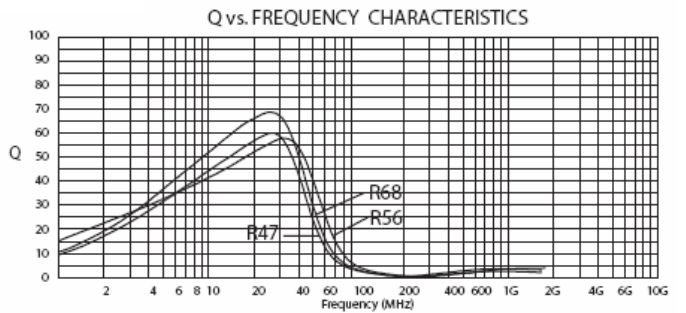
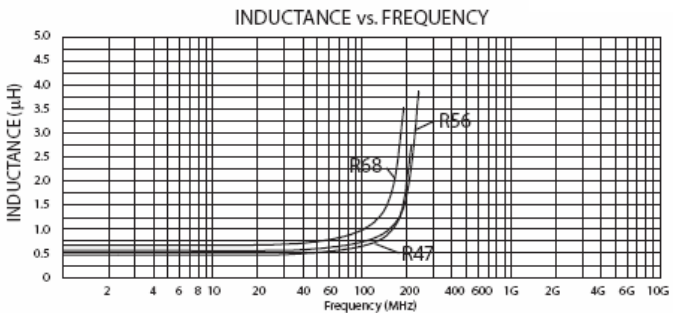
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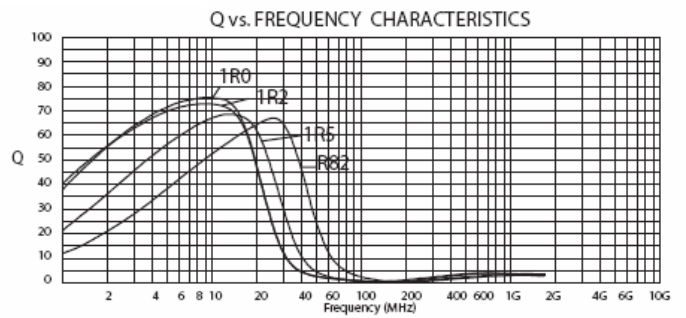
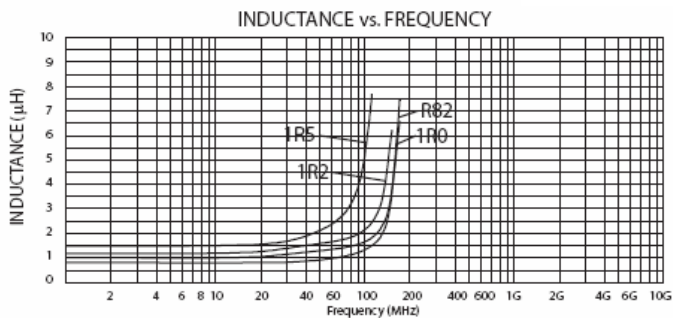
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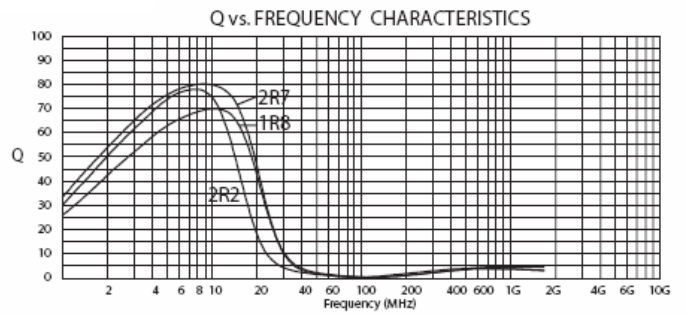
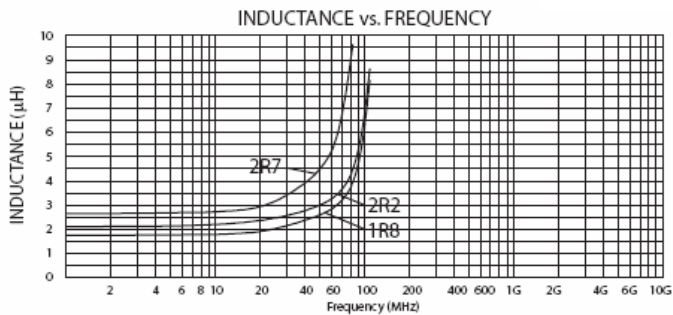
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SWEL1608LR82 & Q1R0 & Q1R2 & Q1R5

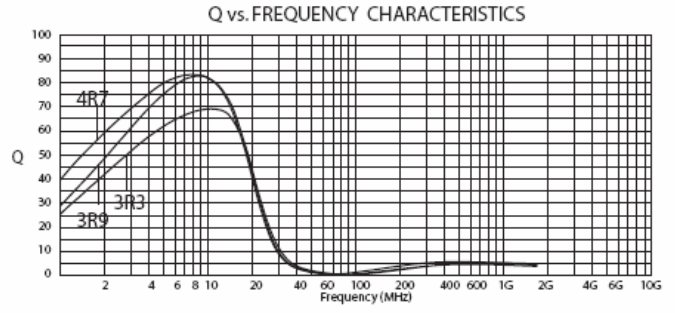
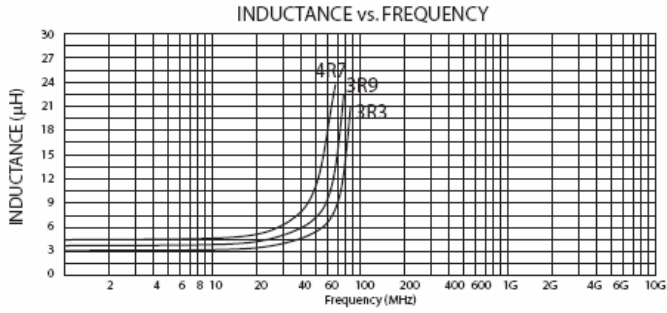


SWEL1608Q1R8 & 2R2 & 2R7

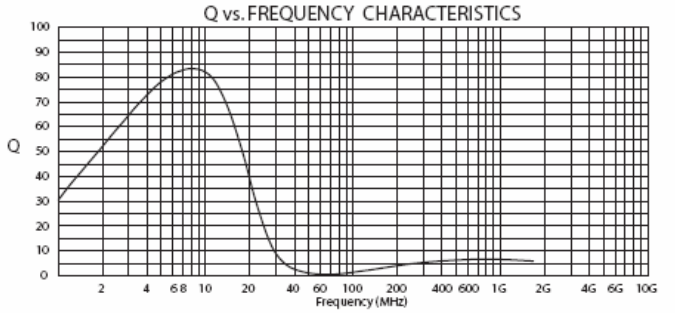
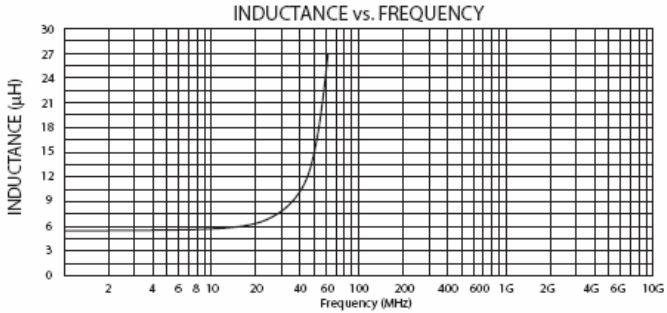


●All Specifications are subject to change without notice.

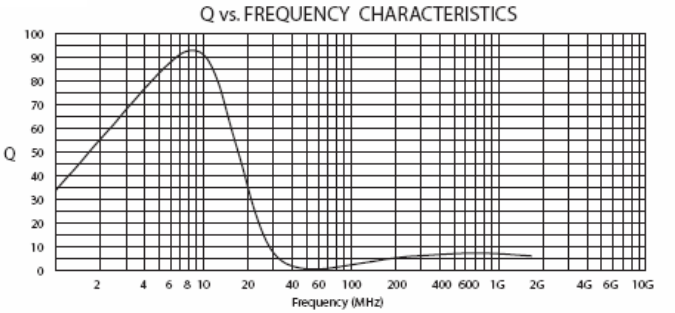
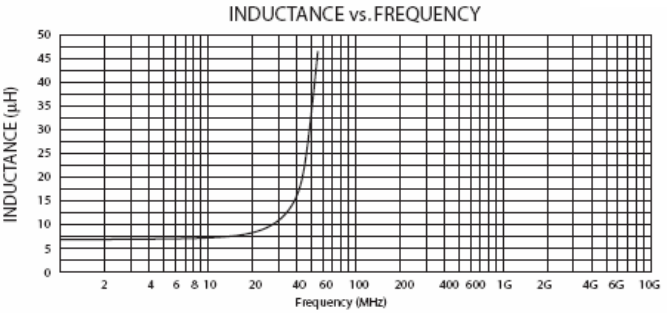
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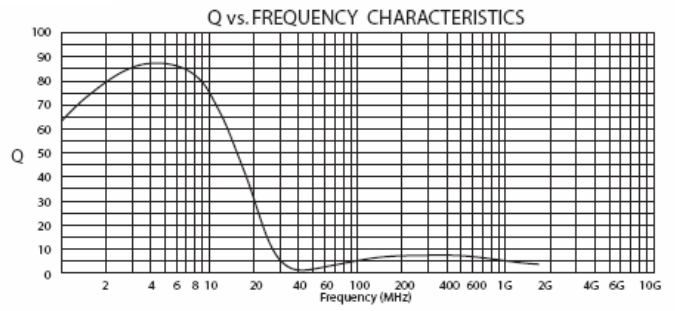
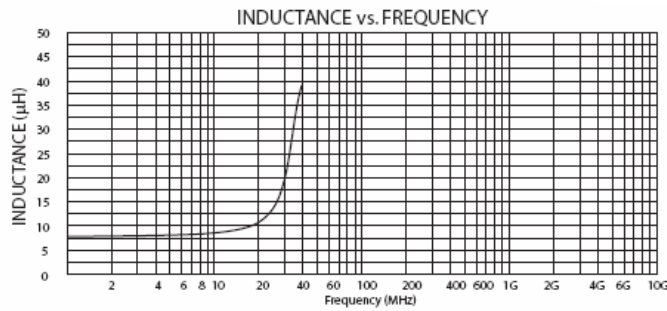
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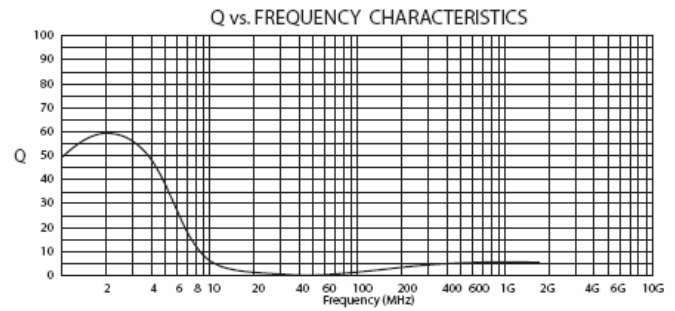
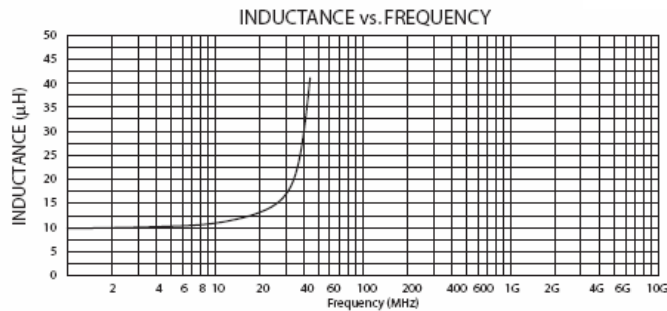
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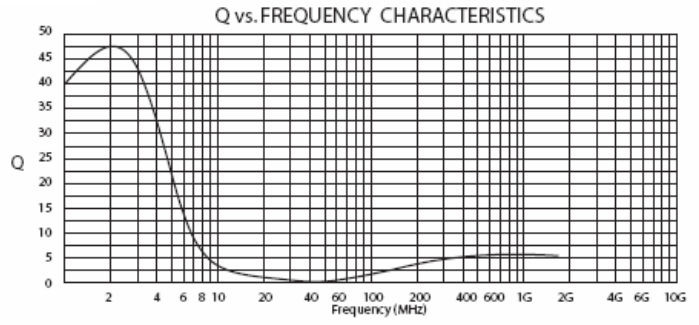
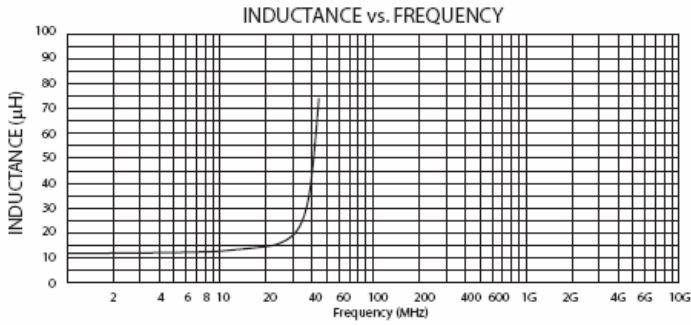


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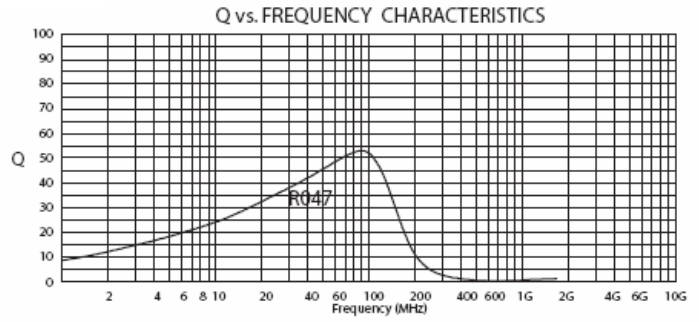
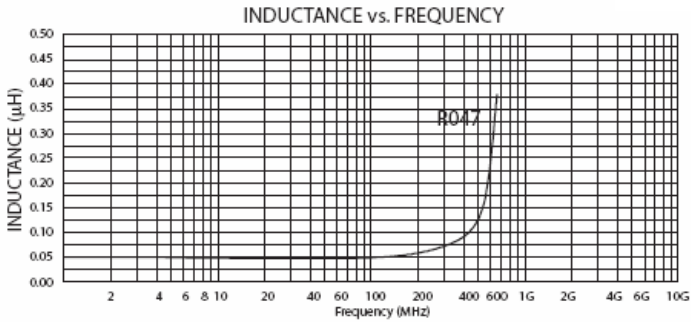


•All Specifications are subject to change without notice.

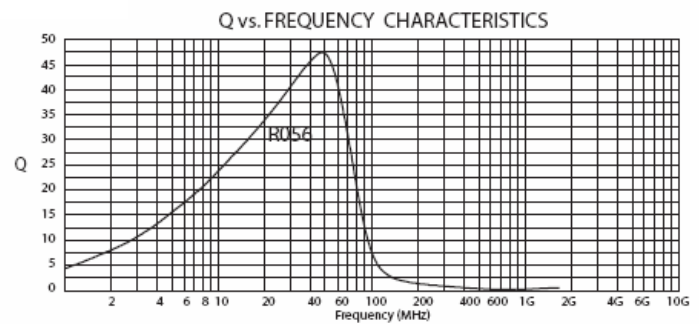
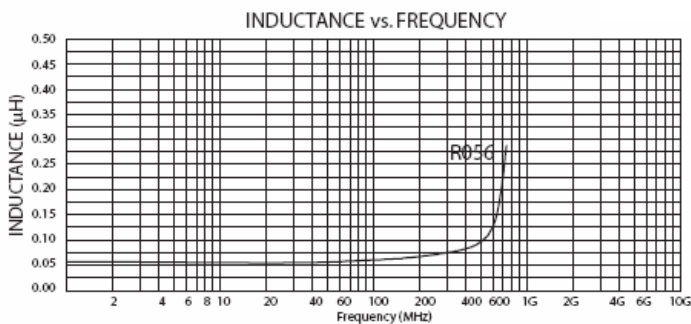
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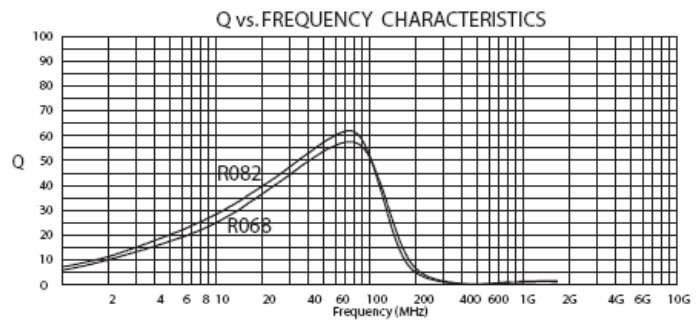
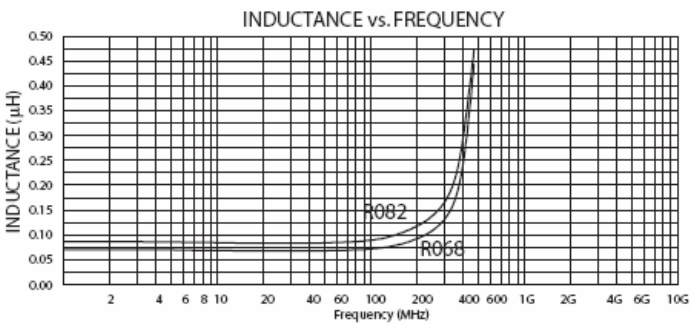
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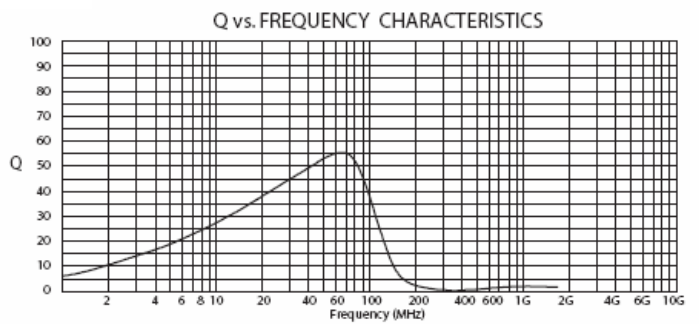
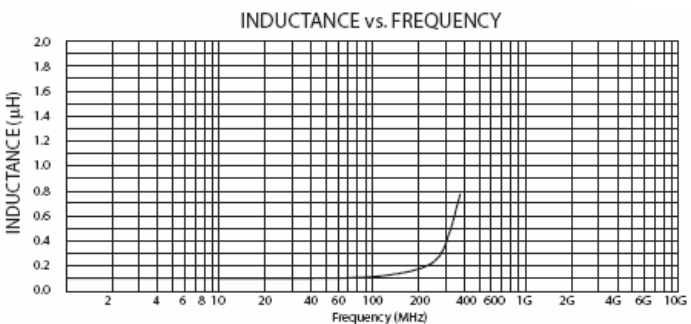
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SWEL2012C68N & 82N

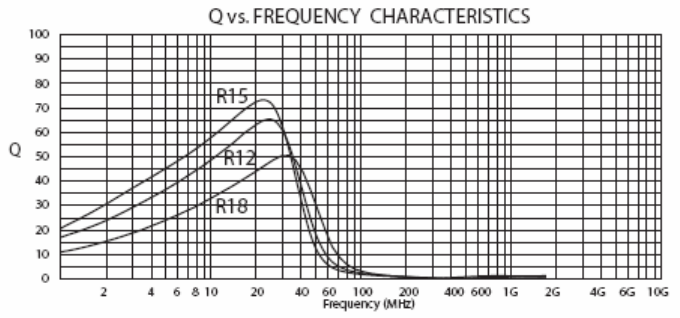
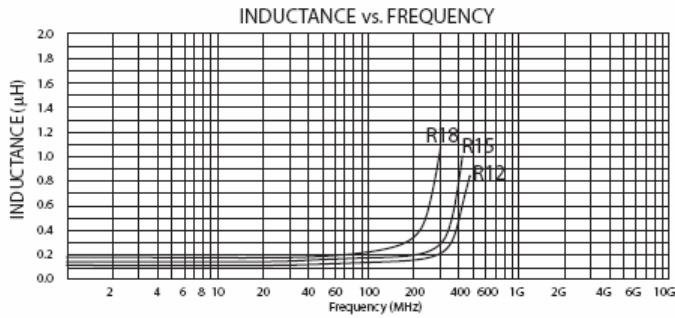


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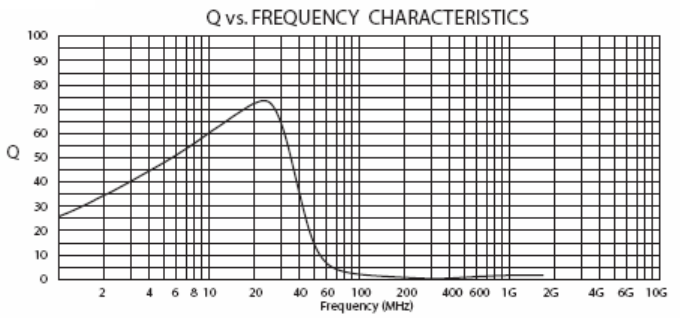
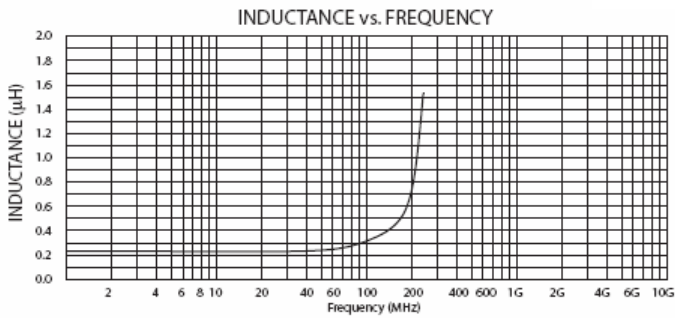


●All Specifications are subject to change without notice.

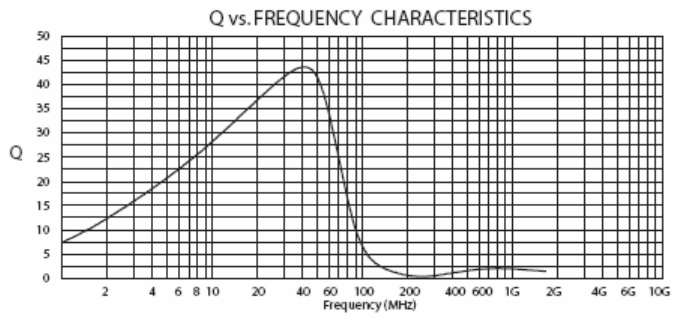
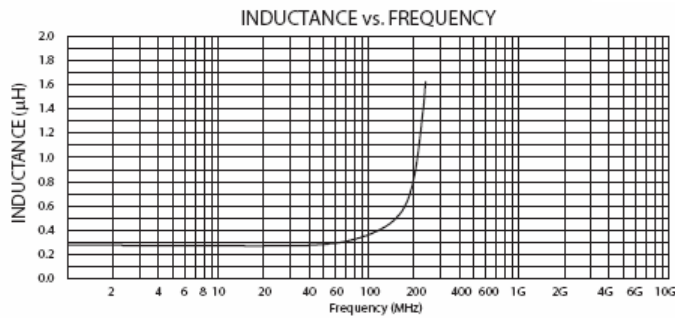
SWEL2012LR12 & R15 & R18



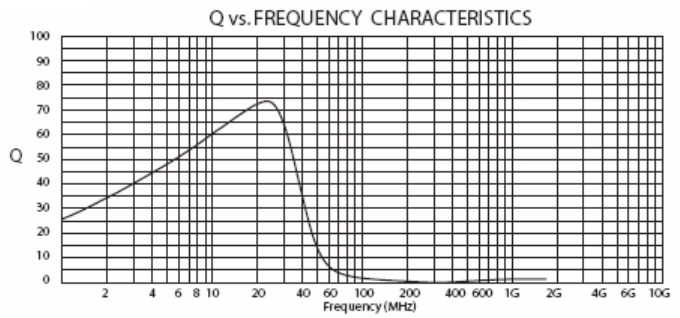
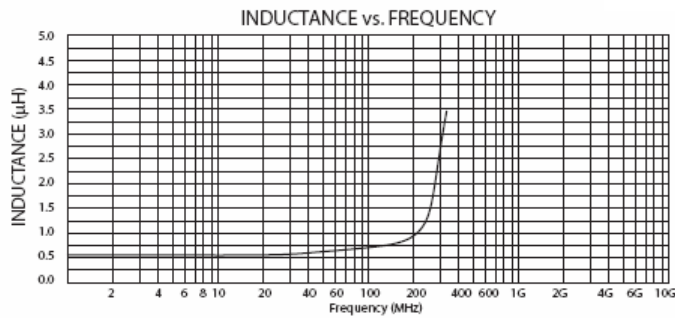
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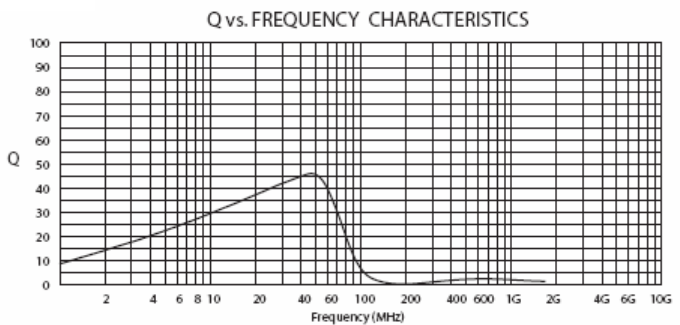
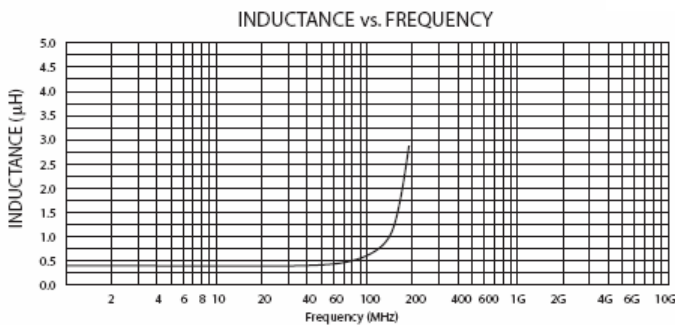
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SWEL2012LR33



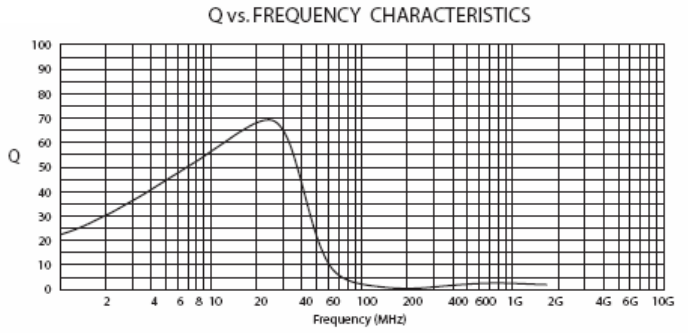
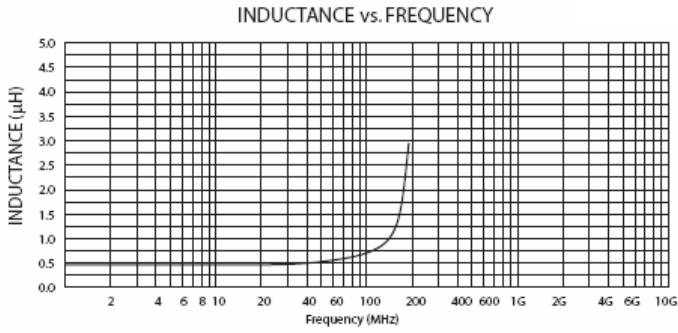
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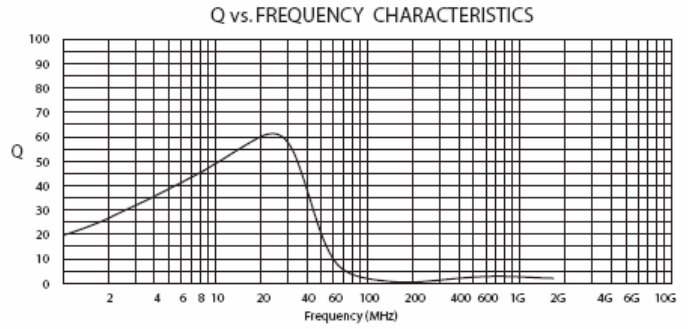
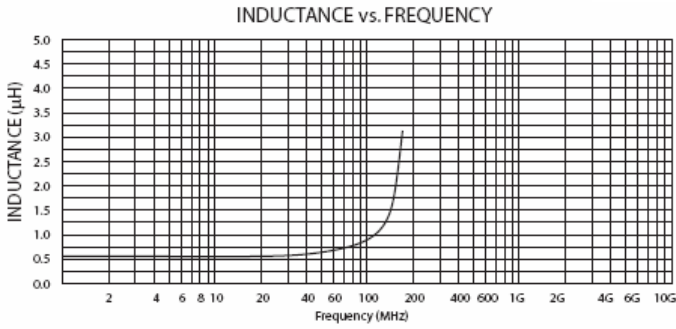
●All Specifications are subject to change without notice.



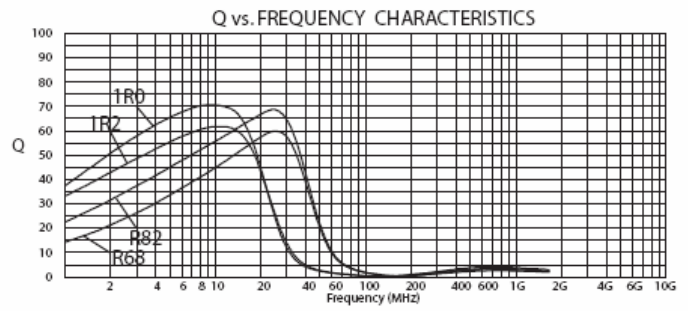
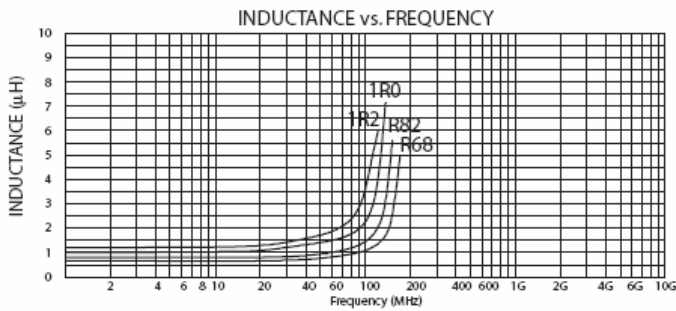
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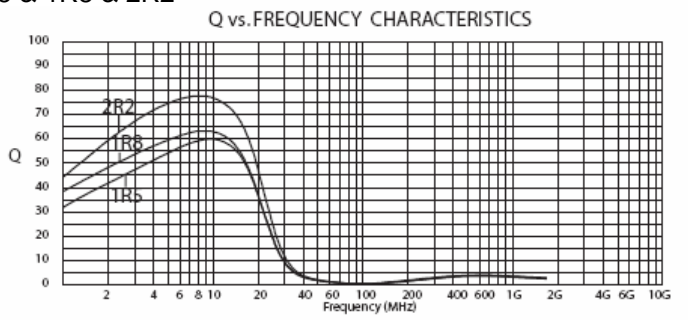
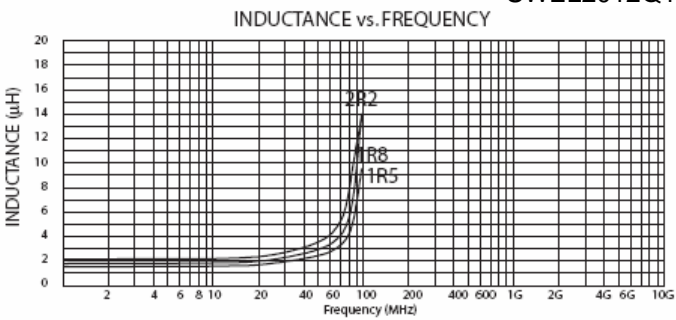
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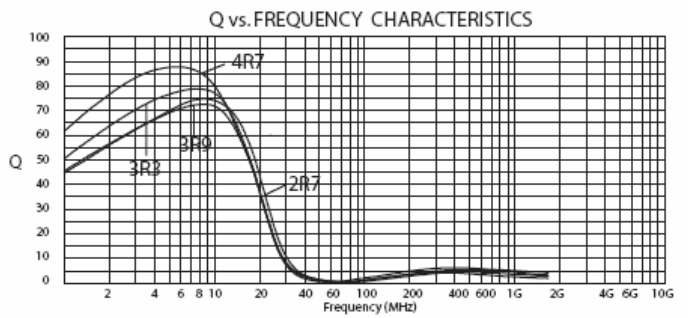
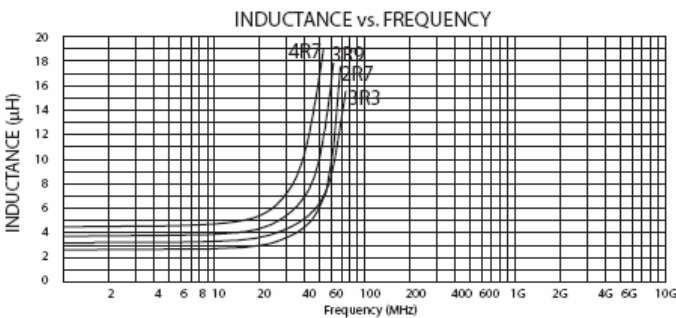
SWEL2012LR68 & R82 & Q1R0 & Q1R2



SWEL2012Q1R5 & 1R8 & 2R2

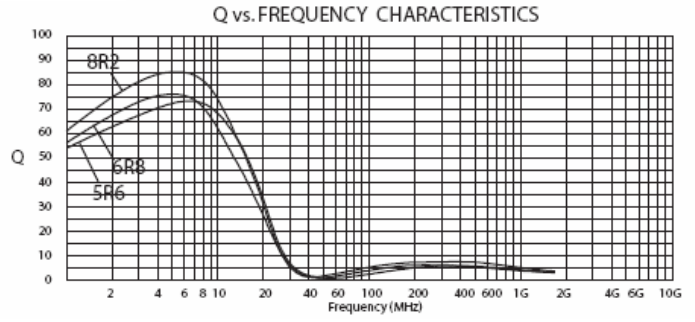
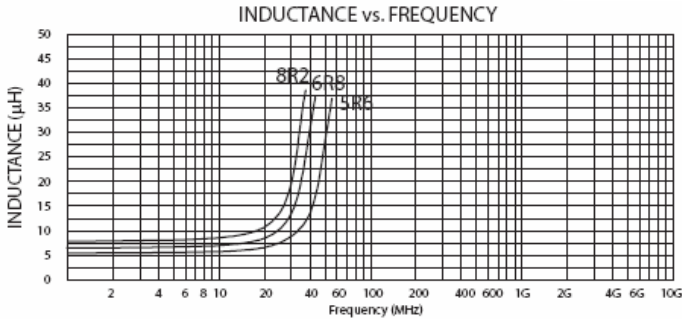


SWEL2012Q2R7 & 3R3 & 3R9 & 4R7

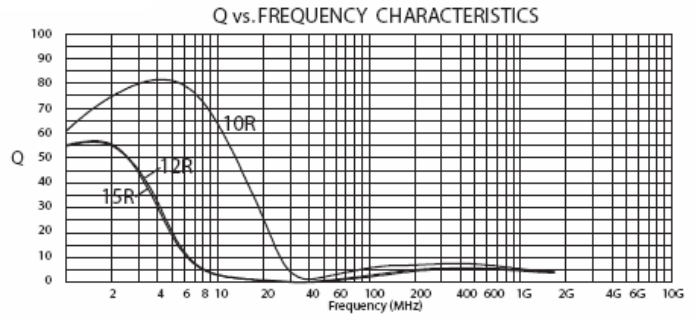
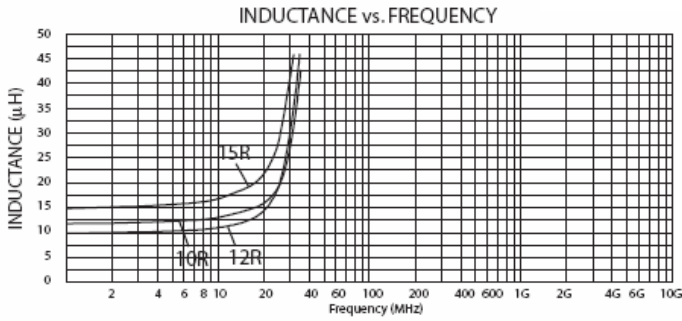


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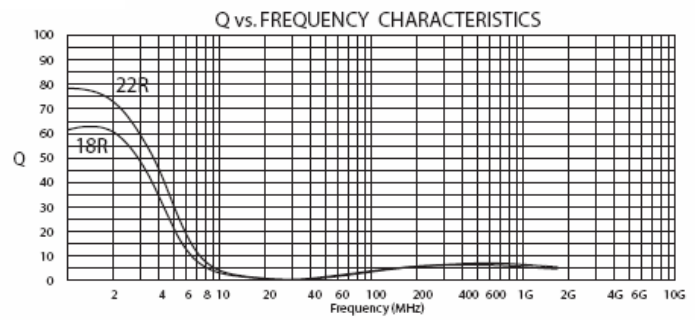
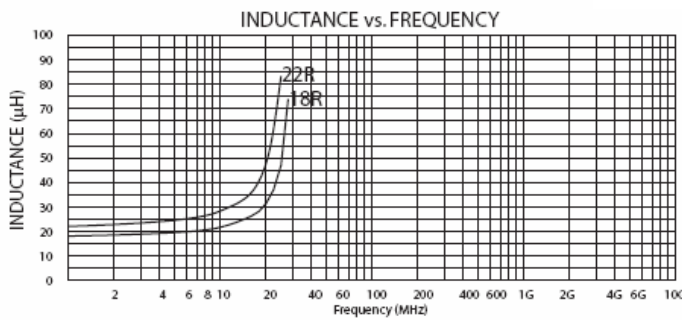
SWEL2012Q5R6 & S6R8 & S8R2



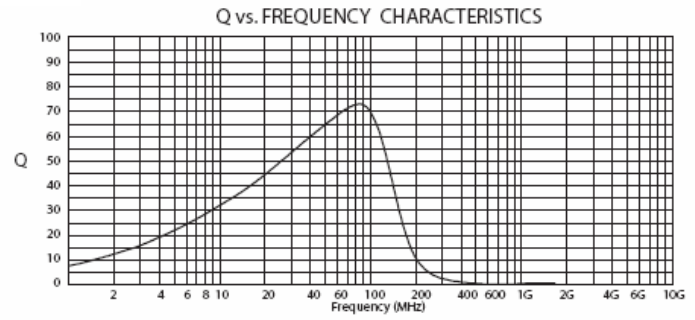
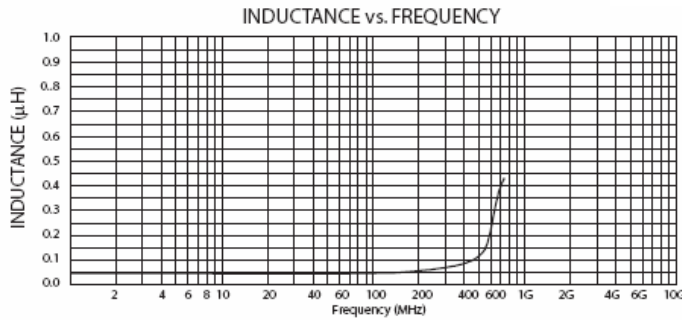
SWEL2012S100 & T120 & T150



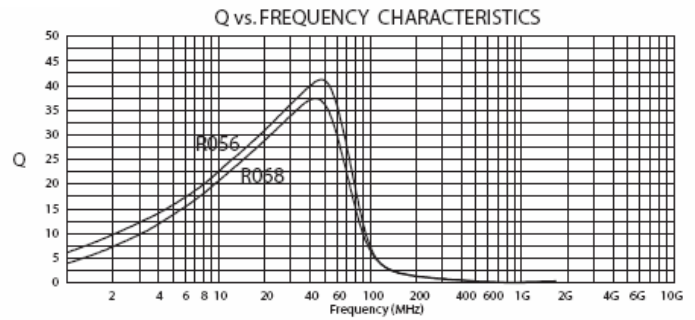
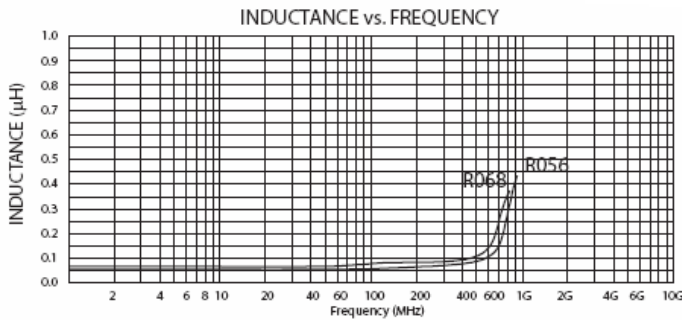
SWEL2012T180 & T220



SWEL3216C47N

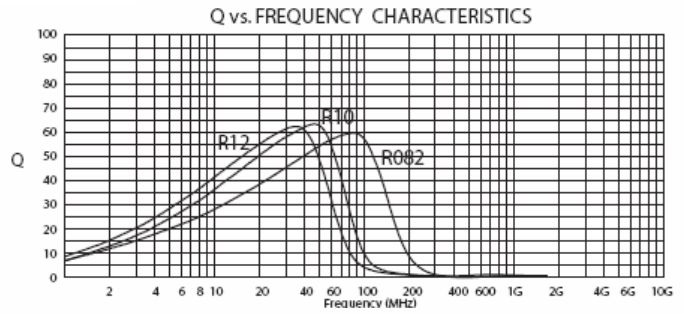
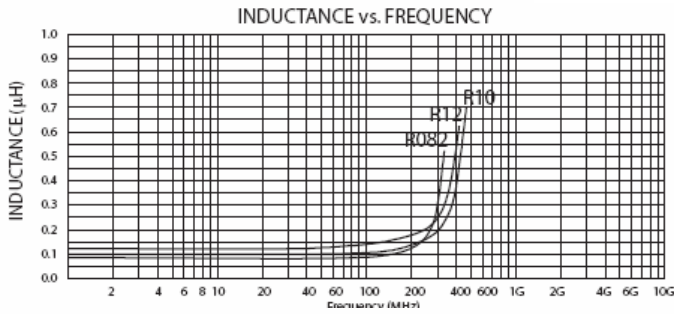


SWEL3216C56N & 68N

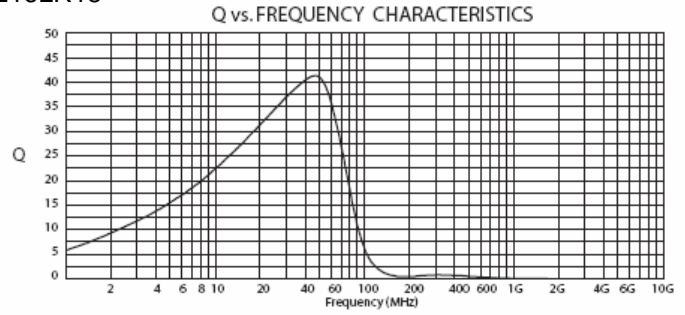
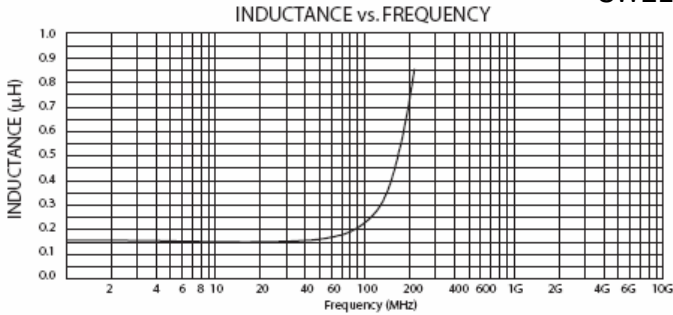


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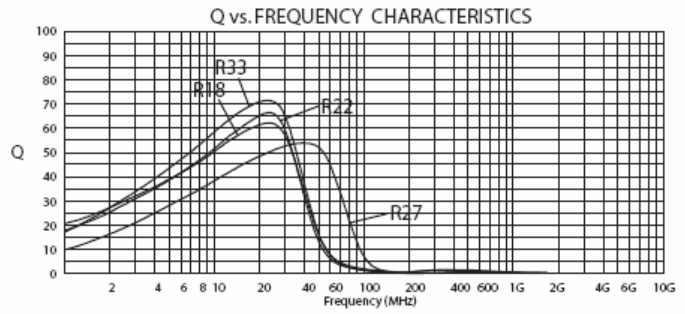
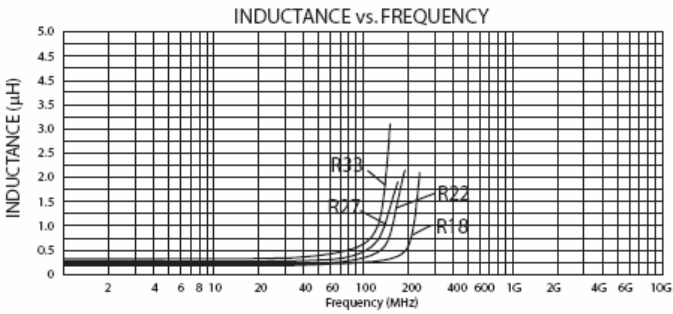
SWEL3216C82N & LR10 & LR12



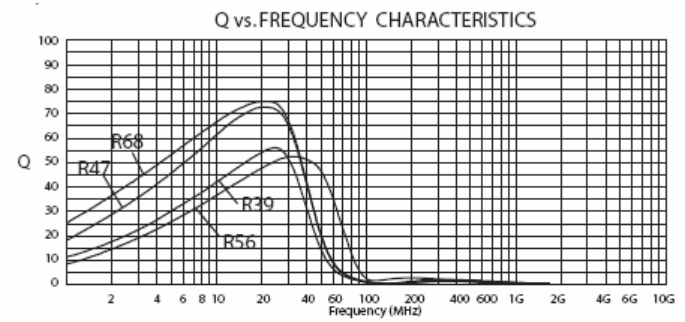
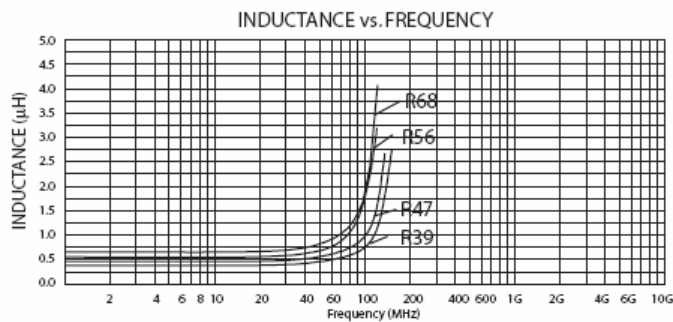
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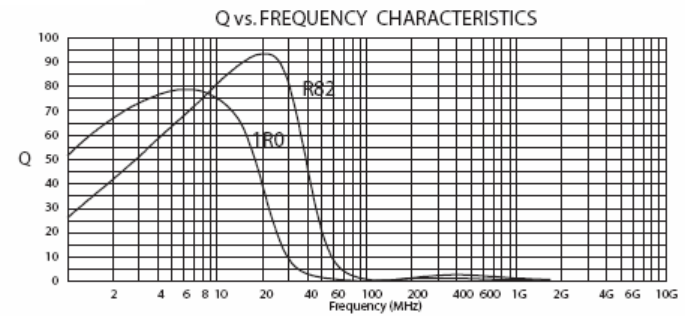
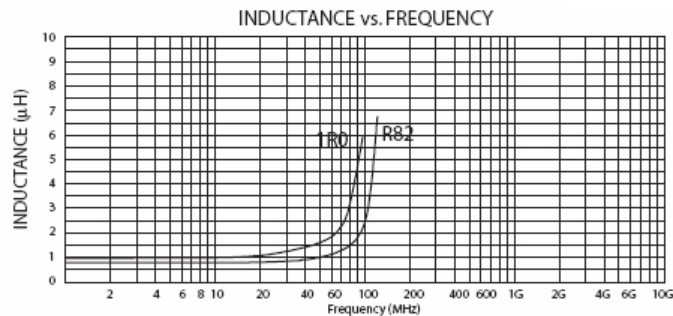
SWEL3216LR18 & R22 & R27 & R33



SWEL3216LR39 & R47 & R56 & R68

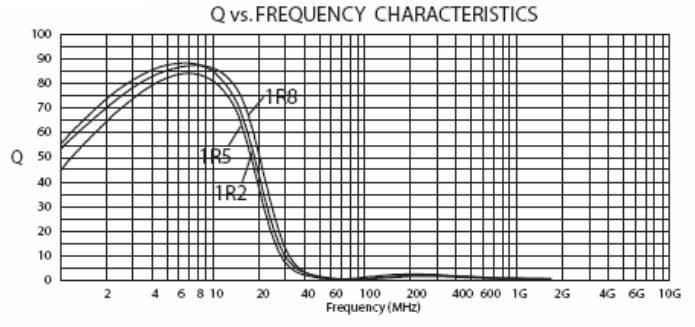
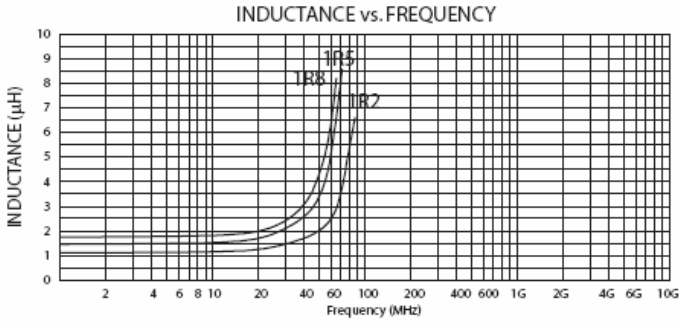


SWEL3216LR82 & Q1R0

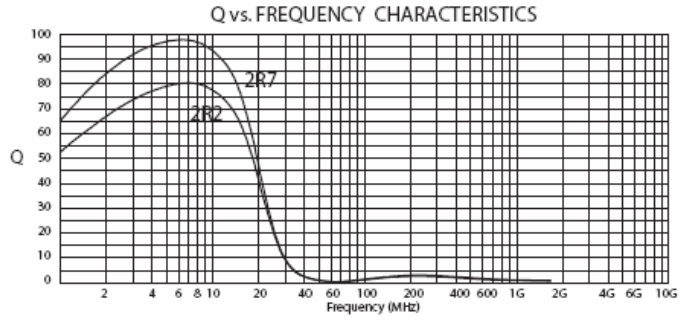
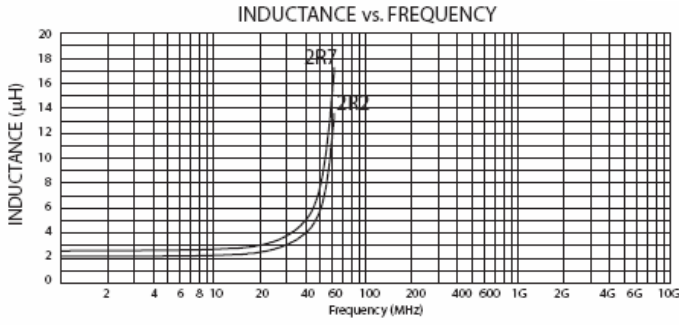


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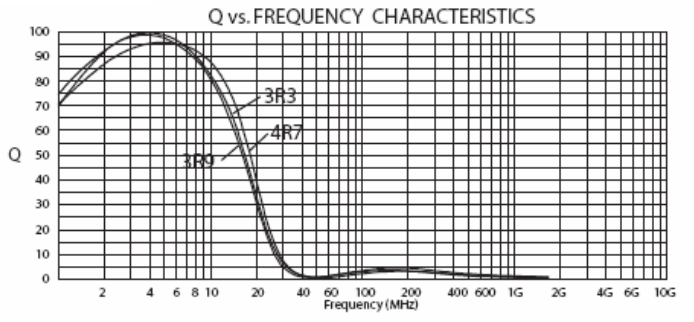
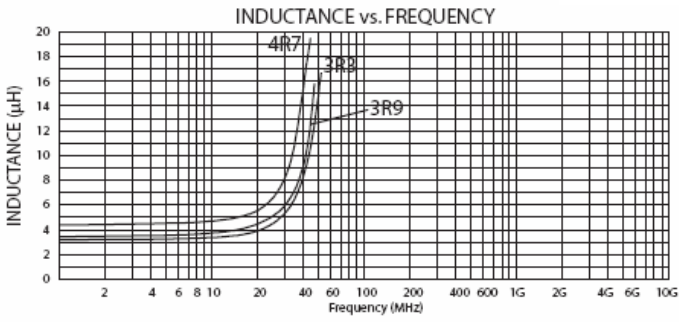
SWEL3216Q1R2 & 1R5 & 1R8



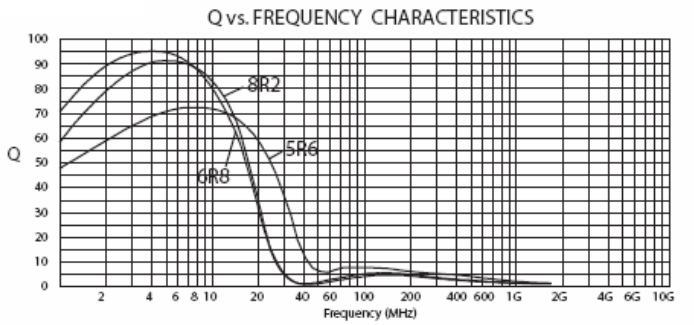
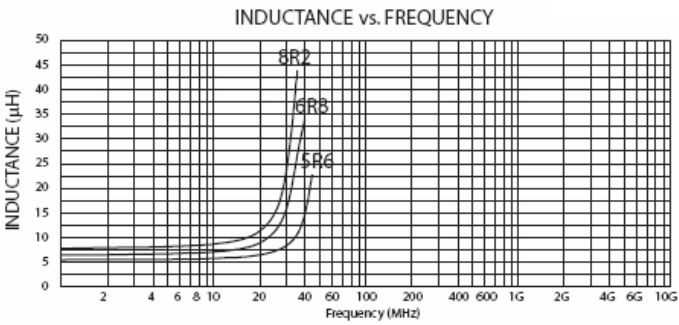
SWEL3216Q2R2 & 2R7



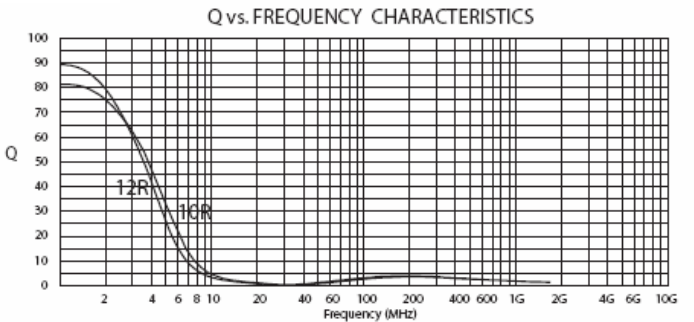
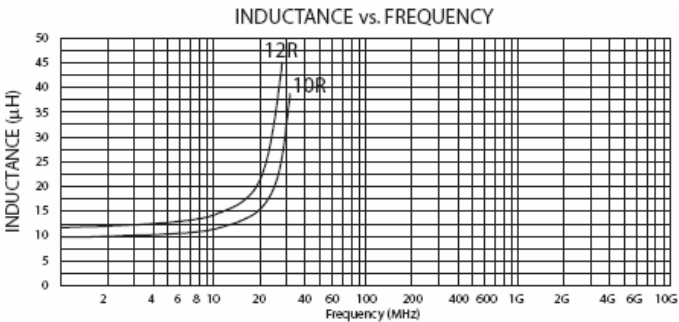
SWEL3216Q3R3 & 3R9 & 4R7



SWEL3216Q5R6 & 6R8 & 8R2

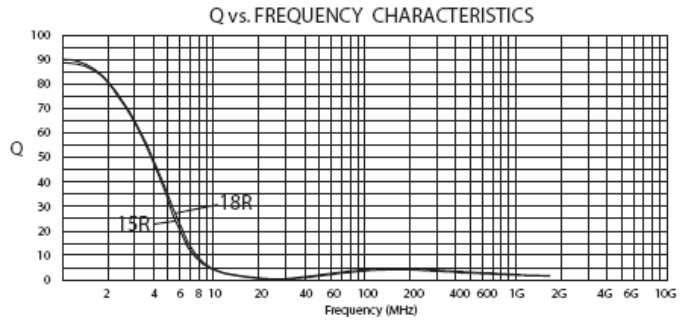
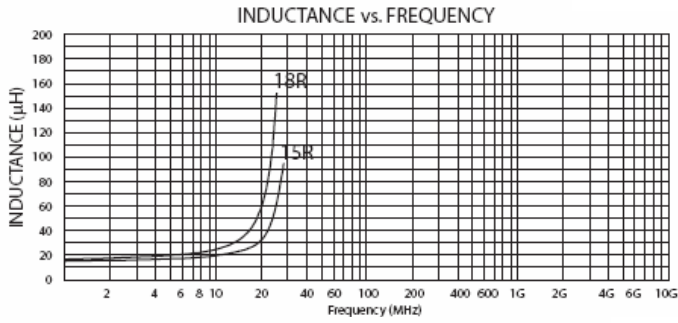


SWEL3216S100 & T120

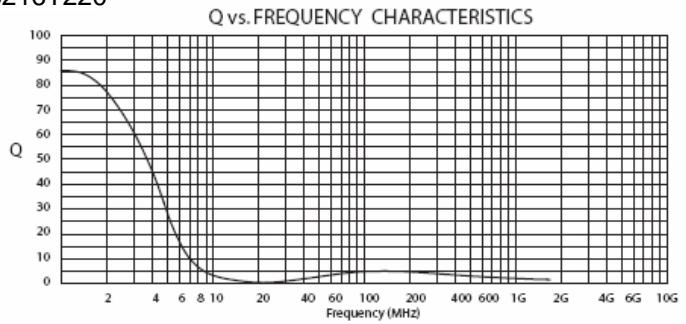
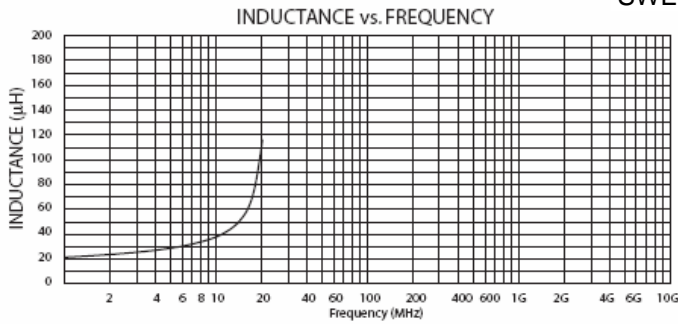


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SWEL3216T150 & T180



SWEL3216T220



◆ Package

Size EIA (EIA)	1608 (0603)	201209 (0805)	201212 (0805)	321611 (1206)
Standard Packing Quantity (pcs / reel)	4,000	4,000	3,000	3,000

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