

Description: Film Type High Q RF chip inductors

PART NUMBER: BSPQ00060304 Series

DESCRIPTION

BSPQ Series supports miniaturized devices. Its low inductance deviation, high precision and higher Q enables easy impedance matching at both RF and IF circuits and compact high frequency circuit designing.

BSPQ Series



Features

- Size: 0.6 x 0.3 x 0.4 mm
- · Excellent high frequency application
- · Higher Q factor
- Miniaturization
- Tight tolerance

Applications

- · RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

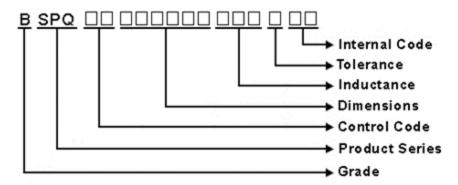




Description: Film Type High Q RF chip inductors

PART NUMBER: BSPQ00060304 Series

Part Numbering



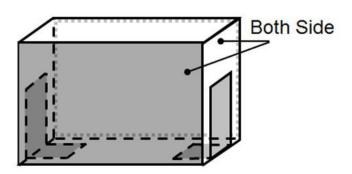
Rating

Operating Temperature: - 5 5 °C ~ 1 2 5 °C(Including self - temperature rise)

Storage Temperature: - 5 5 °C ~ 1 2 5 °C(after PCB)

- 5 °C~4 0 °C, Humidity 4 0 %~7 0 % (before PCB)

Marking



Standard Testing Condition

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35°ℂ)	20 to 30°C
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH

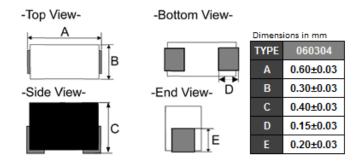






PART NUMBER: BSPQ00060304 Series

Configuration and Dimensions



Electrical Characteristics

Part No.	Inductance (nH)	L,Q Test Freq.	Q Min.	SRF (MHz)Min.	RDC (Ω)Max.	Rated Current (m A)Max.	Tolerance
BSPQ000603040N6B00	0.6	500 MHz,500 mV	20	20000	0.04	1100	B=±0.1nH
BSPQ000603040N6C00	0.6	500 MHz,500 mV	20	20000	0.04	1100	C=±0.2nH
BSPQ000603040N7B00	0.7	500 MHz,500 mV	20	20000	0.04	1100	B=±0.1nH
BSPQ000603040N7C00	0.7	500 MHz,500 mV	20	20000	0.04	1100	C=±0.2nH
BSPQ000603040N8B00	0.8	500 MHz,500 mV	20	18000	0.04	1100	B=±0.1nH
BSPQ000603040N8C00	0.8	500 MHz,500 mV	20	18000	0.04	1100	C=±0.2nH
BSPQ000603040N9B00	0.9	500 MHz,500 mV	20	18000	0.04	1100	B=±0.1nH
BSPQ000603040N9C00	0.9	500 MHz,500 mV	20	18000	0.04	1100	C=±0.2nH
BSPQ000603041N0B00	1	500 MHz,500 mV	20	16000	0.04	1100	B=±0.1nH
BSPQ000603041N0C00	1	500 MHz,500 mV	20	16000	0.04	1100	C=±0.2nH
BSPQ000603041N1B00	1.1	500 MHz,500 mV	20	14000	0.04	1100	B=±0.1nH
BSPQ000603041N1C00	1.1	500 MHz,500 mV	20	14000	0.04	1100	C=±0.2nH
BSPQ000603041N2B00	1.2	500 MHz,500 mV	20	13000	0.04	1100	B=±0.1nH
BSPQ000603041N2C00	1.2	500 MHz,500 mV	20	13000	0.04	1100	C=±0.2nH
BSPQ000603041N3B00	1.3	500 MHz,500 mV	20	13000	0.04	1100	B=±0.1nH
BSPQ000603041N3C00	1.3	500 MHz,500 mV	20	13000	0.04	1100	C=±0.2nH
BSPQ000603041N4B00	1.4	500 MHz,500 mV	20	12000	0.04	1100	B=±0.1nH
BSPQ000603041N4C00	1.4	500 MHz,500 mV	20	12000	0.04	1100	C=±0.2nH
BSPQ000603041N5B00	1.5	500 MHz,500 mV	20	12000	0.05	1000	B=±0.1nH
BSPQ000603041N5C00	1.5	500 MHz,500 mV	20	12000	0.05	1000	C=±0.2nH

NOTE: tolerance B=±0.1nH/C=±0.2nH/H=±3% / J=±5%



^{1.} Operating temperature range - 5 5 °C ~ 1 2 5 °C (Including self - temperature rise)

^{2.}Rate Current: Applied the current to coils, the temperature rise shall not be more than 25°C

^{3.} Residual impedance of short chip: 0.48nH





PART NUMBER: BSPQ00060304 Series

Electrical Characteristics

Part No.	Inductance	L,Q Test Freq.	Q	SRF	RDC	Rated Current	Tolerance
	(nH)		Min.	(MHz)Min.	(Ω)Max.	(m A)Max.	
BSPQ000603041N6B00	1.6	500 MHz,500 mV	20	10000	0.05	1000	B=±0.1nH
BSPQ000603041N6C00	1.6	500 MHz,500 mV	20	10000	0.05	1000	C=±0.2nH
BSPQ000603041N7B00	1.7	500 MHz,500 mV	20	10000	0.07	800	B=±0.1nH
BSPQ000603041N7C00	1.7	500 MHz,500 mV	20	10000	0.07	800	C=±0.2nH
BSPQ000603041N8B00	1.8	500 MHz,500 mV	20	10000	0.08	800	B=±0.1nH
BSPQ000603041N8C00	1.8	500 MHz,500 mV	20	10000	0.08	800	C=±0.2nH
BSPQ000603041N9B00	1.9	500 MHz,500 mV	20	10000	0.12	600	B=±0.1nH
BSPQ000603041N9C00	1.9	500 MHz,500 mV	20	10000	0.12	600	C=±0.2nH
BSPQ000603042N0B00	2	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N0C00	2	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N1B00	2.1	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N1C00	2.1	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N2B00	2.2	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N2C00	2.2	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N3B00	2.3	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N3C00	2.3	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N4B00	2.4	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N4C00	2.4	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N5B00	2.5	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N5C00	2.5	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N6B00	2.6	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N6C00	2.6	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N7B00	2.7	500 MHz,500 mV	20	9000	0.12	600	B=±0.1nH
BSPQ000603042N7C00	2.7	500 MHz,500 mV	20	9000	0.12	600	C=±0.2nH
BSPQ000603042N8B00	2.8	500 MHz,500 mV	20	8000	0.12	600	B=±0.1nH
BSPQ000603042N8C00	2.8	500 MHz,500 mV	20	8000	0.12	600	C=±0.2nH
BSPQ000603042N9B00	2.9	500 MHz,500 mV	20	8000	0.12	600	B=±0.1nH
BSPQ000603042N9C00	2.9	500 MHz,500 mV	20	8000	0.12	600	C=±0.2nH
BSPQ000603043N0B00	3	500 MHz,500 mV	20	8000	0.12	600	B=±0.1nH
BSPQ000603043N0C00	3	500 MHz,500 mV	20	8000	0.12	600	C=±0.2nH

NOTE: tolerance B=±0.1nH/C=±0.2nH/H=±3% / J=±5%



^{1.} Operating temperature range - 5 5 °C ~ 1 2 5 °C(Including self - temperature rise)

^{2.}Rate Current: Applied the current to coils, the temperature rise shall not be more than 25 $^{\circ}$ C

^{3.}Residual impedance of short chip: 0.48nH





PART NUMBER: BSPQ00060304 Series

Electrical Characteristics

Part No.	Inductance	L,Q Test Freq.	Q	SRF	RDC	Rated Current	Tolerance
raitivo.	(nH)		Min.	(MHz)Min.	(Ω)Max.	(m A)Max.	
BSPQ000603043N1B00	3.1	500 MHz,500 mV	20	7500	0.17	500	B=±0.1nH
BSPQ000603043N1C00	3.1	500 MHz,500 mV	20	7500	0.17	500	C=±0.2nH
BSPQ000603043N2B00	3.2	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N2C00	3.2	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603043N3B00	3.3	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N3C00	3.3	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603043N4B00	3.4	$500\mathrm{MHz}$, $500\mathrm{mV}$	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N4C00	3.4	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603043N5B00	3.5	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N5C00	3.5	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603043N6B00	3.6	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N6C00	3.6	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603043N7B00	3.7	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N7C00	3.7	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603043N8B00	3.8	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N8C00	3.8	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603043N9B00	3.9	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603043N9C00	3.9	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603044N0B00	4	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603044N0C00	4	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603044N1B00	4.1	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603044N1C00	4.1	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH
BSPQ000603044N2B00	4.2	500 MHz,500 mV	20	7000	0.17	500	B=±0.1nH
BSPQ000603044N2C00	4.2	500 MHz,500 mV	20	7000	0.17	500	C=±0.2nH

NOTE: tolerance B=±0.1nH/C=±0.2nH/H=±3% / J=±5%



^{1.} Operating temperature range - 5 5 $^{\circ}$ C ~ 1 2 5 $^{\circ}$ C(Including self - temperature rise)

^{2.}Rate Current: Applied the current to coils, the temperature rise shall not be more than 25°C

^{3.} Residual impedance of short chip: 0.48nH





PART NUMBER: BSPQ00060304 Series

Electrical Characteristics

SPQ000603044N3H00		Inductance	I O Toot From	Q	SRF	RDC	Rated Current	Tolerance
BSPQ000603044N3H00 4.3 500 MHz,500 mV 20 7000 0.17 500 H=±3% BSPQ000603044N3J00 4.3 500 MHz,500 mV 20 7000 0.17 500 J=±5% BSPQ000603044N7J00 4.7 500 MHz,500 mV 20 7000 0.25 400 H=±3% BSPQ00060304N7J00 4.7 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ00060304SN1H00 5.1 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ00060304SN6H00 5.6 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ00060304SN6H00 5.6 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ00060304SN6J00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ00060304SNBJ00 6.8 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ00060304SNBJ00 6.8 500 MHz,500 mV	Part No.		L, Q Test Freq.					Tolerance
BSPQ000603044N7H00 4.7 500 MHz,500 mV 20 7000 0.25 400 H±3% BSPQ000603044N7J00 4.7 500 MHz,500 mV 20 7000 0.25 400 J=±5% BSPQ000603045N1H00 5.1 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603045N6H00 5.6 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603045N6J00 5.6 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603046N2H00 6.8 500 MHz,500 mV 20 5500 0.3 400 H=±3% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ000603048N2H00 8.2 500 MHz,500 mV	BSPQ000603044N3H00	-	500 MHz,500 mV					H=±3%
BSPQ000603044N7J00 4.7 500 MHz,500 mV 20 7000 0.25 400 J=±5% BSPQ000603045N1H00 5.1 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603045N1J00 5.1 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603045N6H00 5.6 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603046N8J00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV	BSPQ000603044N3J00	4.3	500 MHz,500 mV	20	7000	0.17	500	J=±5%
BSPQ000603045N1H00 5.1 500 MHz,500 mV 20 5500 0.25 400 H±3% BSPQ000603045N1J00 5.1 500 MHz,500 mV 20 5500 0.25 400 J±5% BSPQ000603045N6H00 5.6 500 MHz,500 mV 20 5500 0.25 400 H±3% BSPQ000603045N6J00 5.6 500 MHz,500 mV 20 5500 0.25 400 J±5% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 H±3% BSPQ000603046N8H00 6.2 500 MHz,500 mV 20 5500 0.25 400 J±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 H±3% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 J±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H±3% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20	BSPQ000603044N7H00	4.7	500 MHz,500 mV	20	7000	0.25	400	H=±3%
BSPQ000603045N1J00 5.1 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603045N6H00 5.6 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603045N6J00 5.6 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N2J00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1H00 9.1 500 MHz,500 mV	BSPQ000603044N7J00	4.7	500 MHz,500 mV	20	7000	0.25	400	J=±5%
BSPQ000603045N6H00 5.6 500 MHz,500 mV 20 5500 0.25 400 H±±3% BSPQ000603045N6J00 5.6 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1H00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV	BSPQ000603045N1H00	5.1	500 MHz,500 mV	20	5500	0.25	400	H=±3%
BSPQ000603045N6J00 5.6 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603046N2J00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 H=±3% BSPQ000603046N8J00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NJ00 10 500 MHz,500 mV <	BSPQ000603045N1J00	5.1	500 MHz,500 mV	20	5500	0.25	400	J=±5%
BSPQ000603046N2H00 6.2 500 MHz,500 mV 20 5500 0.25 400 H=±3% BSPQ000603046N2J00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 H=±3% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NH00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030412NH00 10 500 MHz,500 mV <t< td=""><td>BSPQ000603045N6H00</td><td>5.6</td><td>500 MHz,500 mV</td><td>20</td><td>5500</td><td>0.25</td><td>400</td><td>H=±3%</td></t<>	BSPQ000603045N6H00	5.6	500 MHz,500 mV	20	5500	0.25	400	H=±3%
BSPQ000603046N2J00 6.2 500 MHz,500 mV 20 5500 0.25 400 J=±5% BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 H=±3% BSPQ000603046N8J00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ00060304FN5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ00060304FN5J00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ00060304FN5J00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603048N2J00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603048N2J00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 12 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603045N6J00	5.6	500 MHz,500 mV	20	5500	0.25	400	J=±5%
BSPQ000603046N8H00 6.8 500 MHz,500 mV 20 5500 0.3 400 H=±3% BSPQ000603046N8J00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ000603047N5J00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603048N2J00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20	BSPQ000603046N2H00	6.2	500 MHz,500 mV	20	5500	0.25	400	H=±3%
BSPQ000603046N8J00 6.8 500 MHz,500 mV 20 5500 0.3 400 J=±5% BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ000603047N5J00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603048N2J00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NH00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030412NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20	BSPQ000603046N2J00	6.2	500 MHz,500 mV	20	5500	0.25	400	J=±5%
BSPQ000603047N5H00 7.5 500 MHz,500 mV 20 4500 0.3 400 H=±3% BSPQ000603047N5J00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603048N2J00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20<	BSPQ000603046N8H00	6.8	500 MHz,500 mV	20	5500	0.3	400	H=±3%
BSPQ000603047N5J00 7.5 500 MHz,500 mV 20 4500 0.3 400 J=±5% BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603048N2J00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1J00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603046N8J00	6.8	500 MHz,500 mV	20	5500	0.3	400	J=±5%
BSPQ000603048N2H00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603047N5H00	7.5	500 MHz,500 mV	20	4500	0.3	400	H=±3%
BSPQ000603048N2J00 8.2 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NJ00 11 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603047N5J00	7.5	500 MHz,500 mV	20	4500	0.3	400	J=±5%
BSPQ000603049N1H00 9.1 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603048N2H00	8.2	500 MHz,500 mV	20	4500	0.4	300	H=±3%
BSPQ000603049N1J00 9.1 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603048N2J00	8.2	500 MHz,500 mV	20	4500	0.4	300	J=±5%
BSPQ0006030410NH00 10 500 MHz,500 mV 20 4500 0.4 300 H=±3% BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603049N1H00	9.1	500 MHz,500 mV	20	4500	0.4	300	H=±3%
BSPQ0006030410NJ00 10 500 MHz,500 mV 20 4500 0.4 300 J=±5% BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ000603049N1J00	9.1	500 MHz,500 mV	20	4500	0.4	300	J=±5%
BSPQ0006030412NH00 12 500 MHz,500 mV 20 4000 0.5 300 H=±3% BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ0006030410NH00	10	500 MHz,500 mV	20	4500	0.4	300	H=±3%
BSPQ0006030412NJ00 12 500 MHz,500 mV 20 4000 0.5 300 J=±5% BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ0006030410NJ00	10	500 MHz,500 mV	20	4500	0.4	300	J=±5%
BSPQ0006030415NH00 15 500 MHz,500 mV 20 3500 0.7 300 H=±3% BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ0006030412NH00	12	500 MHz,500 mV	20	4000	0.5	300	H=±3%
BSPQ0006030415NJ00 15 500 MHz,500 mV 20 3500 0.7 300 J=±5%	BSPQ0006030412NJ00	12	500 MHz,500 mV	20	4000	0.5	300	J=±5%
• • • • • • • • • • • • • • • • • • • •	BSPQ0006030415NH00	15	500 MHz,500 mV	20	3500	0.7	300	H=±3%
DODOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	BSPQ0006030415NJ00	15	500 MHz,500 mV	20	3500	0.7	300	J=±5%
BSPQUUU6U3U418NHUU 18 500 MHz,500 mV 20 3500 0.8 250 H=±3%	BSPQ0006030418NH00	18	500 MHz,500 mV	20	3500	0.8	250	H=±3%
BSPQ0006030418NJ00 18 500 MHz,500 mV 20 3500 0.8 250 J=±5%	BSPQ0006030418NJ00	18	500 MHz,500 mV	20	3500	8.0	250	J=±5%
BSPQ0006030422NH00 22 500 MHz,500 mV 20 3000 0.82 250 H=±3%	BSPQ0006030422NH00	22	500 MHz,500 mV	20	3000	0.82	250	H=±3%
BSPQ0006030422NJ00 22 500 MHz,500 mV 20 3000 0.82 250 J=±5%	BSPQ0006030422NJ00	22	500 MHz,500 mV	20	3000	0.82	250	J=±5%

NOTE: tolerance B= ± 0.1 nH/ C= ± 0.2 nH/ H= $\pm 3\%$ / J= $\pm 5\%$

1. Operating temperature range - 5 5 °C ~ 1 2 5 °C (Including self - temperature rise)

2.Rate Current: Applied the current to coils, the temperature rise shall not be more than 25°C

3. Residual impedance of short chip: 0.48 nH

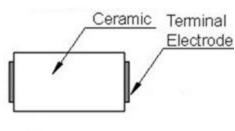


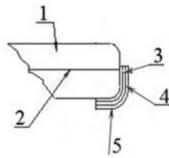


Description: Film Type High Q RF chip inductors

PART NUMBER: BSPQ00060304 Series

Construction & Material List





No	Part	Material
1	Main Substance	AI2 03-SiO2
2	Silver electrode	Ag
3	Silver electrode	Ag
4	Ni plating	Ni
5	Sn plating	Sn



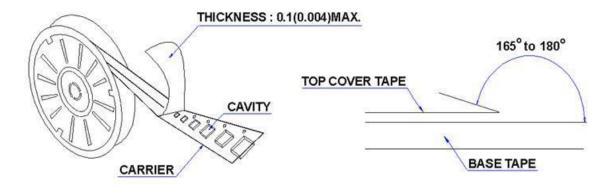


PART NUMBER: BSPQ00060304 Series

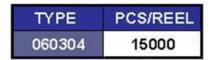
Packaging

Packaging -Cover Tape

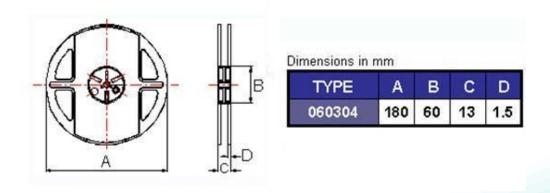
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



Packaging Quantity



Reel Dimensions





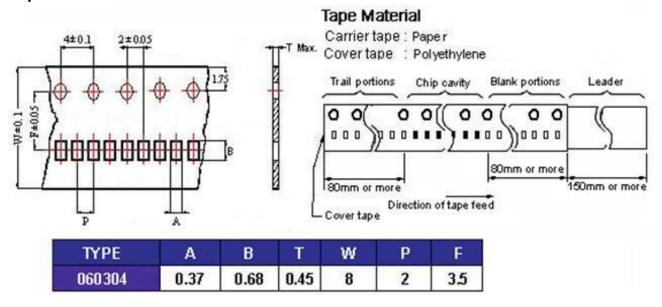




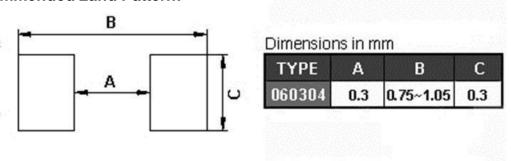
PART NUMBER: BSPQ00060304 Series

Packaging

Tape Dimensions in mm



Recommended Land Pattern:



Note:

- 1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
- 2. Do not knock nor drop.
- 3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
- 4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
- 5. The moisture sensitivity level (MSL) of products is classified as level 1.

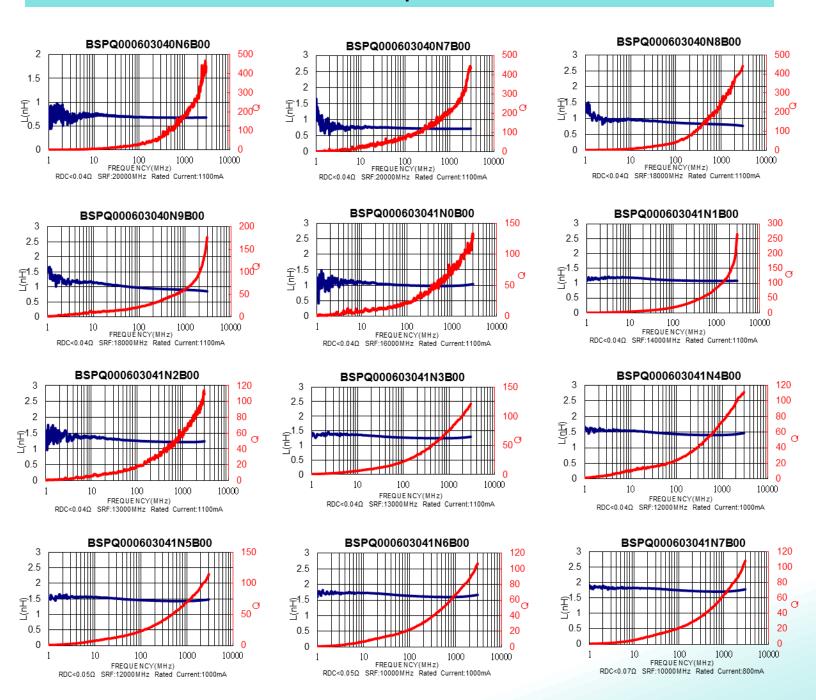






PART NUMBER: BSPQ00060304 Series

Graph

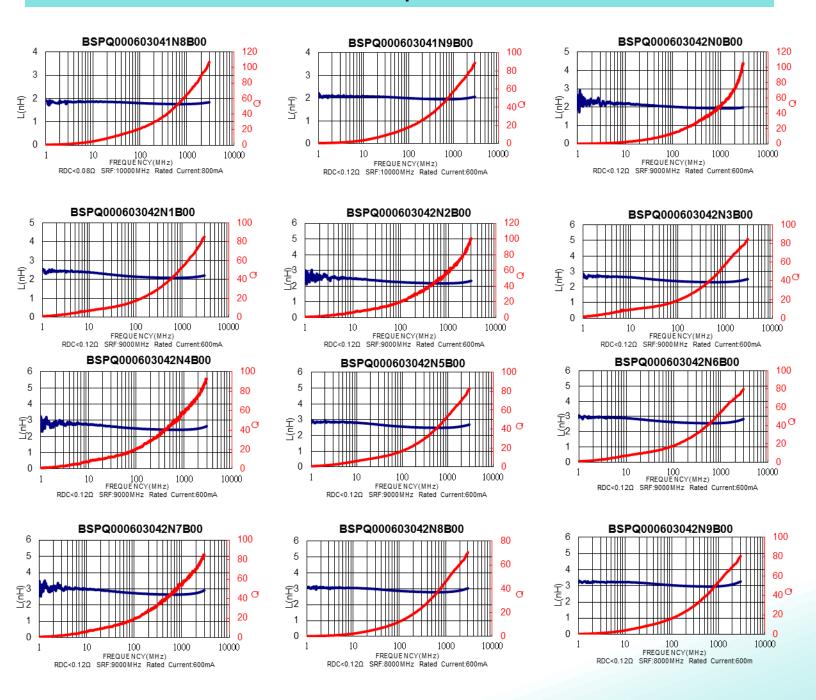






PART NUMBER: BSPQ00060304 Series

Graph



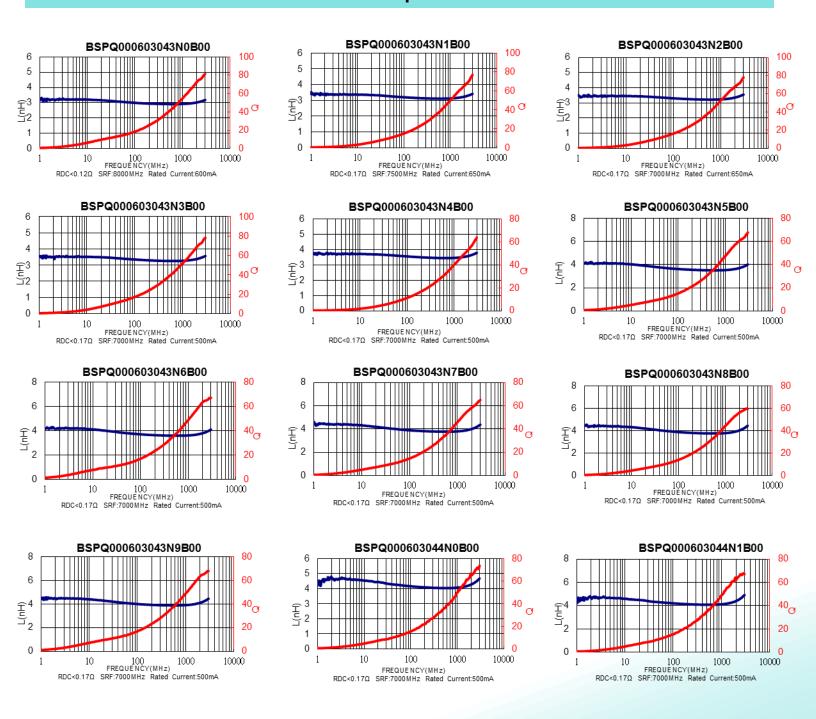






PART NUMBER: BSPQ00060304 Series

Graph



In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

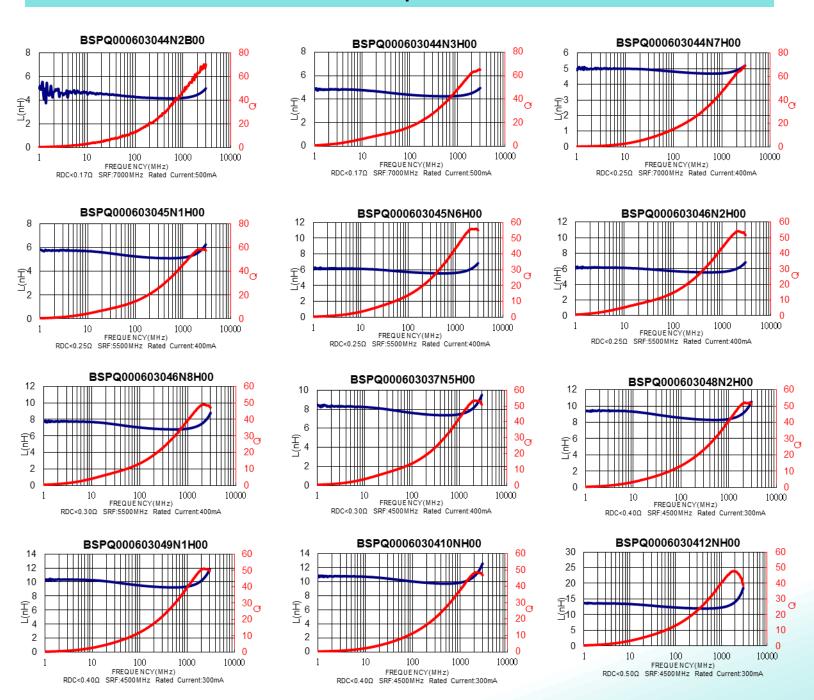






PART NUMBER: BSPQ00060304 Series

Graph



In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

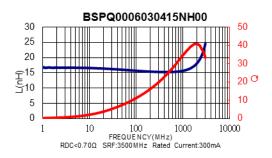


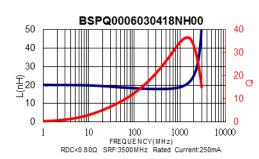


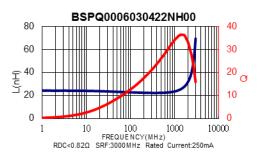
Description: Film Type High Q RF chip inductors

PART NUMBER: BSPQ00060304 Series

Graph









Description: Film Type High Q RF chip inductors

PART NUMBER: BSPQ00060304 Series

REVISION HISTORY

Revision	Date	Description
Version 1	Mar. 23, 2022	- New issue
Version 2	Aug. 09, 2022	- Update electrical characteristics.