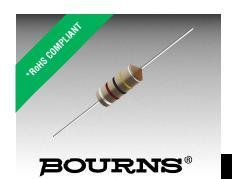


# THE DATASHEET OF 8250-104K-RC



#### **Features**

- Formerly **J.W. Miller**\* model
- Current rating up to 3 A
- Inductance range: 0.1 µH to 100,000 µH
- Shielded
- RoHS compliant\*

#### **Applications**

- Signal processing
- Telecommunications
- Dense board designs

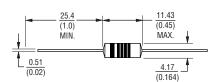
# 8250 Series - Shielded RF Choke

#### Electrical Specifications (@ 25 °C)

8250-R10K-RC         0.10         50         25         400         0.026         3000         3000           8250-R13K-RC         0.15         50         25         400         0.029         2860         2850         285         400         0.044         2300         2300         2300         2850-R2K-RC         0.22         50         25         400         0.056         2050         255         400         0.090         1625         1625         8250-R38K-RC         0.33         47         25         325         0.122         1400         2400	Part Number	Inductance (µH) ±10 %	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) max.	ldc (mA)	Isat (mA)
8250-R12K-RC         0.12         50         25         400         0.034         2600         2800           8250-R18K-RC         0.18         50         25         400         0.034         2600         2800           8250-R18K-RC         0.18         50         25         400         0.044         2300         2300           8250-R2K-RC         0.22         50         25         400         0.090         1625         1625           8250-R3K-RC         0.27         50         25         400         0.090         1625         1625           8250-R3K-RC         0.39         47         25         390         0.161         1220         1220           8250-R8K-RC         0.39         47         25         264         0.218         1060         1060           8250-R86K-RC         0.68         43         25         2249         0.290         900         900           8250-R82K-RC         0.82         41         25         200         0.450         725         725           8250-1R9K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R9K-RC         1.2		4 /		_ `				
8250-R15K-RC         0.15         50         25         400         0.034         2600         260           8250-R2K-RC         0.18         50         25         400         0.044         2300         2300           8250-R2K-RC         0.22         50         25         400         0.090         1625         1625           8250-R3K-RC         0.27         50         25         400         0.090         1625         1625           8250-R3K-RC         0.33         47         25         325         0.122         1400         1400           8250-R3K-RC         0.39         47         25         390         0.161         1220         1220           8250-R8K-RC         0.47         47         25         264         0.218         1060         106           8250-R8K-RC         0.56         45         25         249         0.290         900         900           8250-R8K-RC         0.68         43         25         221         0.382         790         790           8250-18EK-RC         0.82         41         25         200         0.450         725         725           8250-18EK-RC         1.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
8250-R18K-RC         0.18         50         25         400         0.044         2300         230           8250-R2ZK-RC         0.22         50         25         400         0.056         2050         2050           8250-R2ZK-RC         0.27         50         25         400         0.090         1625         1625           8250-R3SK-RC         0.33         47         25         325         0.122         1400         1400           8250-R3SK-RC         0.39         47         25         390         0.161         1220         1220           8250-R3K-RC         0.47         47         25         390         0.161         1220         1220           8250-R6K-RC         0.56         45         25         249         0.290         900         900           8250-R8K-RC         0.68         43         25         221         0.382         790         790           8250-R8K-RC         0.82         41         25         200         0.450         725         725           8250-1R8K-RC         1.5         41         7.9         144         0.070         1840         1840           8250-1R8K-RC         1.6								
8250-R2ZK-RC         0.22         50         25         400         0.056         2050         205           8250-R2TK-RC         0.27         50         25         400         0.090         1625         1625           8250-R33K-RC         0.33         47         25         390         0.161         1220         1220           8250-R39K-RC         0.39         47         25         390         0.161         1220         1220           8250-R8K-RC         0.47         47         25         264         0.218         1060         1060           8250-R86K-RC         0.68         43         25         221         0.382         790         790           8250-R86K-RC         0.82         41         25         200         0.450         725         725           8250-R86K-RC         1.0         42         25         156         0.054         2080         2080           8250-R86K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R8K-RC         1.2         43         7.9         121         0.107         1480         1480           8250-1R9K-RC         1.8								
8250-R27K-RC         0.27         50         25         400         0.090         1625         1625           8250-R33K-RC         0.33         47         25         325         0.122         1400         1400           8250-R3K-RC         0.39         47         25         390         0.161         1220         1220           8250-R3K-RC         0.47         47         25         264         0.218         1060         1060           8250-R56K-RC         0.56         45         25         249         0.290         900         900           8250-R68K-RC         0.68         43         25         221         0.382         790         790           8250-R82K-RC         0.82         41         25         200         0.450         725         725           8250-1R2K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R2K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R8K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-2R7K-RC         1.8								
8250-R33K-RC         0.33         47         25         325         0.122         1400         1400           8250-R39K-RC         0.39         47         25         390         0.161         1220         1220           8250-R56K-RC         0.47         47         25         264         0.218         1060         1060           8250-R56K-RC         0.56         45         25         249         0.290         900         900           8250-R6K-RC         0.68         43         25         221         0.382         790         790           8250-R82K-RC         0.82         41         25         200         0.450         725         725           8250-1R8K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R8K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R8K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-187K-RC         1.5         41         7.9         184         0.070         1840         1480           8250-287K-RC         2.7								
8250-R39K-RC         0.39         47         25         390         0.161         1220         1220           8250-R47K-RC         0.47         47         25         264         0.218         1060         1060           8250-R56K-RC         0.56         45         25         249         0.290         900         900           8250-R6K-RC         0.68         43         25         221         0.382         790         790           8250-R82K-RC         0.682         41         25         200         0.450         725         725           8250-1R6K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R8K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-1R8K-RC         1.8         42         7.9         121         0.107         1480         1480           8250-2R2K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-2R7K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-3R9K-RC         3.3								
8250-R47K-RC         0.47         47         25         264         0.218         1060         1060           8250-R56K-RC         0.56         45         25         249         0.290         900         900           8250-R68K-RC         0.68         43         25         221         0.382         790         725         725         725         725         8250-180         20.41         1.30         1184         42         7.9         1144         0.070         1484         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840         1840								
8250-R56K-RC         0.56         45         25         249         0.290         900         900           8250-R68K-RC         0.68         43         25         221         0.382         790         790           8250-R68K-RC         0.82         41         25         200         0.450         725         790           8250-1R0K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R5K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R5K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-1R5K-RC         1.8         42         7.9         108         0.142         1290         1290           8250-2R2K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-3R3K-RC         3.3         41         7.9         96         0.284         1130         1130           8250-3R9K-RC         3.9         41         7.9         88         0.260         950         950           8250-BK-RC         6.6								
8250-R68K-RC         0.68         43         25         221         0.382         790         790           8250-R82K-RC         0.82         41         25         200         0.450         725         725           8250-1R0K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R5K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R5K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-1R8K-RC         1.8         42         7.9         121         0.107         1480         1480           8250-2R2K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-3R3K-RC         3.3         41         7.9         96         0.284         1130         1130           8250-3R9K-RC         3.9         41         7.9         88         0.260         950           8250-8R9K-RC         4.7         42         7.9         72         0.168         710         710           8250-8B2K-RC         5.6         42								
8250-R82K-RC         0.82         41         25         200         0.450         725         725           8250-1R0K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R2K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R5K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-1R8K-RC         1.8         42         7.9         121         0.107         1480         1480           8250-2R7K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-3R3K-RC         2.7         41         7.9         96         0.284         1130         1130           8250-3R3K-RC         3.3         41         7.9         88         0.260         950         950           8250-3R9K-RC         3.9         41         7.9         88         0.260         950         950           8250-8R9K-RC         4.7         42         7.9         72         0.168         710         710           8250-8R2K-RC         6.8								
8250-1R0K-RC         1.0         42         25         156         0.054         2080         2080           8250-1R2K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R5K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-1R5K-RC         1.8         42         7.9         121         0.107         1480         1480           8250-2R7K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-3R3K-RC         3.3         41         7.9         96         0.284         1130         1130           8250-3R9K-RC         3.9         41         7.9         88         0.260         950         950           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-8R9K-RC         6.8         42         7.9         58         0.828         535         535           8250-120K-RC         10         <								
8250-1R2K-RC         1.2         43         7.9         144         0.070         1840         1840           8250-1R5K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-1R5K-RC         1.8         42         7.9         121         0.107         1480         1480           8250-2R7K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-2R7K-RC         2.7         41         7.9         96         0.284         1130         1130           8250-3R3K-RC         3.3         41         7.9         88         0.260         950         950           8250-3R9K-RC         3.9         41         7.9         84         0.354         815         815           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-6R8K-RC         5.6         42         7.9         69         0.511         680         8250-8R8K-RC         6.8         42         7.9         58         0.828         535         535           8250-100K-RC         10         46         7.9 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
8250-1R5K-RC         1.5         41         7.9         128         0.096         1560         1560           8250-1R8K-RC         1.8         42         7.9         121         0.107         1480         1480           8250-2R2K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-2R7K-RC         2.7         41         7.9         96         0.284         1130         1130           8250-3R9K-RC         3.3         41         7.9         98         0.260         950         950           8250-3R9K-RC         3.9         41         7.9         84         0.354         815         815           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-6R8K-RC         6.8         42         7.9         69         0.511         680         680           8250-100K-RC         8.2         46         7.9         58         0.828         535         532           8250-130K-RC         12         50								
8250-1R8K-RC         1.8         42         7.9         121         0.107         1480         1480           8250-2R2K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-2R7K-RC         2.7         41         7.9         96         0.284         1130         1130           8250-3R9K-RC         3.3         41         7.9         88         0.260         950         950           8250-3R9K-RC         3.9         41         7.9         84         0.354         815         815           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-4R7K-RC         5.6         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-100K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         388         368           8250-150K-RC         18         50								
8250-2R2K-RC         2.2         42         7.9         108         0.142         1290         1290           8250-2R7K-RC         2.7         41         7.9         96         0.284         1130         1130           8250-3R3K-RC         3.3         41         7.9         88         0.260         950         950           8250-3R9K-RC         3.9         41         7.9         84         0.354         815         815           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-5R6K-RC         6.8         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-100K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-180K-RC         18         50								
8250-2R7K-RC         2.7         41         7.9         96         0.284         1130         1130           8250-3R3K-RC         3.3         41         7.9         88         0.260         950         950           8250-3R9K-RC         3.9         41         7.9         84         0.354         815         815           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-6R8K-RC         6.8         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-120K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-180K-RC         18         50         2.5         41         2.300         325         325           8250-220K-RC         22         50								
8250-3R3K-RC         3.3         41         7.9         88         0.260         950         950           8250-3R9K-RC         3.9         41         7.9         84         0.354         815         815           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-6R8K-RC         6.8         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-120K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-180K-RC         18         50         2.5         41         2.300         325         325           8250-220K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         <								
8250-3R9K-RC         3.9         41         7.9         84         0.354         815         815           8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-6R8K-RC         6.8         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-100K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-150K-RC         15         50         2.5         47         1.760         368         368           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-330K-RC         33         50 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
8250-4R7K-RC         4.7         42         7.9         72         0.168         710         710           8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-6R8K-RC         6.8         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-10MK-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-150K-RC         15         50         2.5         41         2.300         325         325           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-330K-RC         27         50         2.5         36         0.850         526         200           8250-390K-RC         39         50 <td< td=""><td></td><td></td><td></td><td></td><td>88</td><td>0.260</td><td>950</td><td>950</td></td<>					88	0.260	950	950
8250-5R6K-RC         5.6         42         7.9         69         0.511         680         680           8250-6R8K-RC         6.8         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-100K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-150K-RC         15         50         2.5         41         2.300         325         325           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-330K-RC         27         50         2.5         36         0.850         526         200           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-560K-RC         47         55 <td< td=""><td>8250-3R9K-RC</td><td>3.9</td><td>41</td><td>7.9</td><td>84</td><td>0.354</td><td>815</td><td>815</td></td<>	8250-3R9K-RC	3.9	41	7.9	84	0.354	815	815
8250-6R8K-RC         6.8         42         7.9         62         0.750         560         560           8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-100K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-150K-RC         15         50         2.5         41         2.300         325         325           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-560K-RC         47         55	8250-4R7K-RC	4.7	42	7.9	72	0.168	710	710
8250-8R2K-RC         8.2         46         7.9         58         0.828         535         535           8250-100K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-150K-RC         15         50         2.5         41         2.300         325         325           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         68         55	8250-5R6K-RC	5.6	42	7.9	69	0.511	680	680
8250-100K-RC         10         46         7.9         53         1.270         532         532           8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-150K-RC         15         50         2.5         41         2.300         325         325           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         36         0.850         526         200           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-390K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         68         55	8250-6R8K-RC	6.8	42	7.9	62	0.750	560	560
8250-120K-RC         12         50         2.5         47         1.760         368         368           8250-150K-RC         15         50         2.5         41         2.300         325         325           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         68         55 <td< td=""><td>8250-8R2K-RC</td><td>8.2</td><td>46</td><td>7.9</td><td>58</td><td>0.828</td><td>535</td><td>535</td></td<>	8250-8R2K-RC	8.2	46	7.9	58	0.828	535	535
8250-150K-RC         15         50         2.5         41         2.300         325         325           8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-390K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         56         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.	8250-100K-RC	10	46	7.9	53	1.270	532	532
8250-180K-RC         18         50         2.5         43         0.677         596         235           8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         56         55         2.5         26.5         1.48         400         175           8250-560K-RC         68         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-151K-RC         100         65         2.	8250-120K-RC	12	50	2.5	47	1.760	368	368
8250-220K-RC         22         50         2.5         38         0.742         565         220           8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         56         55         2.5         25         1.64         380         160           8250-560K-RC         68         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-121K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79	8250-150K-RC	15	50	2.5	41	2.300	325	325
8250-270K-RC         27         50         2.5         36         0.850         526         200           8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         56         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-820K-RC         82         55         2.5         12         2.28         322         120           8250-181K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-181K-RC         150         65         0.	8250-180K-RC	18	50	2.5	43	0.677	596	235
8250-330K-RC         33         50         2.5         33         0.928         505         190           8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         56         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-820K-RC         82         55         2.5         12         2.28         322         120           8250-121K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65	8250-220K-RC	22	50	2.5	38	0.742	565	220
8250-390K-RC         39         50         2.5         29.4         1.28         429         180           8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         56         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-820K-RC         82         55         2.5         12         2.28         322         120           8250-101K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65 <t< td=""><td>8250-270K-RC</td><td>27</td><td>50</td><td>2.5</td><td>36</td><td>0.850</td><td>526</td><td>200</td></t<>	8250-270K-RC	27	50	2.5	36	0.850	526	200
8250-470K-RC         47         55         2.5         26.5         1.48         400         175           8250-560K-RC         56         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-820K-RC         82         55         2.5         12         2.28         322         120           8250-101K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65 <t< td=""><td>8250-330K-RC</td><td>33</td><td>50</td><td>2.5</td><td>33</td><td>0.928</td><td>505</td><td>190</td></t<>	8250-330K-RC	33	50	2.5	33	0.928	505	190
8250-560K-RC         56         55         2.5         25         1.64         380         160           8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-101K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65	8250-390K-RC	39	50	2.5	29.4	1.28	429	180
8250-680K-RC         68         55         2.5         23         2.20         328         150           8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-101K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70	8250-470K-RC	47	55	2.5	26.5	1.48	400	175
8250-820K-RC         82         55         2.5         14         1.96         349         140           8250-101K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70	8250-560K-RC	56	55	2.5	25	1.64	380	160
8250-101K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55	8250-680K-RC	68	55	2.5	23	2.20	328	150
8250-101K-RC         100         65         2.5         12         2.28         322         120           8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55	8250-820K-RC	82	55	2.5	14	1.96	349	140
8250-121K-RC         120         65         0.79         11.2         2.45         311         95           8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55	8250-101K-RC	100	65		12		322	120
8250-151K-RC         150         65         0.79         10.5         2.79         294         90           8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55								
8250-181K-RC         180         65         0.79         10.0         3.08         277         85           8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55								
8250-221K-RC         220         65         0.79         9.4         3.48         251         80           8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55								
8250-271K-RC         270         65         0.79         8.0         4.55         231         70           8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55								
8250-331K-RC         330         65         0.79         7.3         5.10         215         65           8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55								
8250-391K-RC         390         65         0.79         6.9         5.62         205         60           8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55								
8250-471K-RC         470         70         0.79         6.5         6.45         192         58           8250-561K-RC         560         70         0.79         6.0         8.00         174         55								
8250-561K-RC 560 70 0.79 6.0 8.00 174 55								
8250-681K-RC   680   75   0.79   5.6   8.85   163   50								

Materials	
Core Material	Ferrite
Wire	Enameled copper
Terminal Coating	Sn

# Packaging Standard.......500 pcs. per bag Optional......2500 pcs. per 14-inch reel

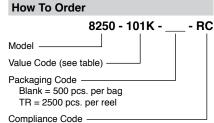


 $\begin{array}{ccc} & & & \\ \text{DIMENSIONS:} & & & \\ \hline \text{(INCHES)} & & & \\ \end{array}$ 

#### **Electrical Schematic**

**Product Dimensions** 





RC = RoHS Compliant

Examples: 8250-151K-RC = 150 μH, packaged 500 pcs. per had

8250-R39K-TR-RC = 0.39  $\mu$ H, packaged 2500 pcs. per 14-inch reel

~ Continued on page 2 ~



# 8250 Series - Shielded RF Choke

### **BOURNS**®

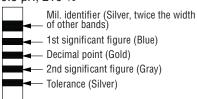
#### Electrical Specifications (@ 25 °C) - Continued

			1	1			1
Part Number	Inductance (µH) ±10 %	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) max.	ldc (mA)	Isat (mA)
8250-821K-RC	820	70	0.79	4.8	10.4	151	45
8250-102K-RC	1000	65	0.79	4.5	12.1	139	40
8250-122K-RC	1200	70	0.25	2.6	15.1	125	35
8250-152K-RC	1500	70	0.25	2.5	16.8	119	33
8250-182K-RC	1800	70	0.25	2.3	19.1	111	30
8250-222K-RC	2200	70	0.25	2.2	22.0	103	27
8250-272K-RC	2700	70	0.25	2.1	25.1	97	25
8250-332K-RC	3300	70	0.25	2	33.3	85	22
8250-392K-RC	3900	70	0.25	1.8	36.8	80	20
8250-472K-RC	4700	70	0.25	1.7	51.2	68	19
8250-562K-RC	5600	70	0.25	1.6	54.6	66	17
8250-682K-RC	6800	70	0.25	1.5	62	62	16
8250-822K-RC	8200	70	0.25	1.4	86.6	52	15
8250-103K-RC	10,000	70	0.25	1.3	93.1	50	14
8250-123K-RC	12,000	50	0.079	0.88	84	53	13
8250-153K-RC	15,000	50	0.079	0.78	97	49	12
8250-183K-RC	18,000	50	0.079	0.72	104	48	10
8250-223K-RC	22,000	50	0.079	0.57	145	40	9
8250-273K-RC	27,000	50	0.079	0.46	195	34	8
8250-333K-RC	33,000	50	0.079	0.42	222	32	7.5
8250-393K-RC	39,000	50	0.079	0.42	242	31	6
8250-473K-RC	47,000	50	0.079	0.37	317	27	5.5
8250-563K-RC	56,000	50	0.079	0.36	362	25	5
8250-683K-RC	68,000	50	0.079	0.35	410	24	4
8250-823K-RC	82,000	50	0.079	0.34	440	23	3.5
8250-104K-RC	100,000	50	0.079	0.32	484	22	3

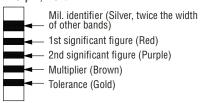
#### Typical Part Marking - MIL-STD Color Code

	1st & 2nd		
	Significant Figure		
Color	or Decimal Point	Multiplier	Tolerance
Black	0	1	
Brown	1	10	
Red	2	100	
Orange	3	1000	
Yellow	4		
Green	5		
Blue	6		
Violet	7		
Gray	8		
White	9		
Silver			± 10 %
Gold	Decimal Point		± 5 %

Example for L value less than 10  $\mu H$  6.8  $\mu H$ , ±10 %



Example for L value 10  $\mu H$  and higher 270  $\mu H,\, \pm 5~\%$ 



REV. 02/09

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