



	RC04-04 RC Springprobe™	RC05-01 RC Springprobe™	RC08-02 RC Springprobe™	RC10-07 RC Springprobe™	RC10-04 RC Springprobe™	RC12-06 RC Springprobe™	CR08-062 RC Connect-R™
Contact Material	Gold Plated Beryllium Copper	Gold Plated Beryllium Copper	Gold Plated Beryllium Copper	Gold Plated Beryllium Copper	Gold Plated Beryllium Copper	Gold Plated Beryllium Copper	Gold Plated Beryllium Copper
Mated Height (in/mm)	0.030/0.76	0.030/0.76	0.045/1.14	0.055/1.40	0.085/2.16	0.090/2.29	.062/1.57
Pitch (in/mm) Compression Force/Contact (grams +/-20%) Compression Range (in/mm)	0.0157/0.40	0.0197/0.50	0.0315/0.80	0.0394/1.00	0.0394/1.00	0.0500/1.27	0.0315/0.80
Compression Force/Contact (grams ± 20%)	20	20	20	24	22	34	60
Compression Range (in/mm)	0.006/0.15	0.006/0.15	0.009/0.23	0.010/0.25	0.015/0.38	0.015/0.38	0.010/0.25
Contact Resistance (mΩ)	60	70	60	50	66	65	50
Self-Inductance (nH)	~.50	0.45	0.73	0.92	1.35	~1.50	0.61
High Freq Capacity (-1 dB point, GHz)	~20	25	20	37	11	~20	40 (@1mm Pitch)
Characteristic Impedance at Native Pitch (Ohms)	56	65	61	73			57 (@ 1mm Pitch)
Durability (Cycles)	10,000	10,000	10,000	10,000	10,000	10,000	1,000
Current Carrying Capacity (Single Contact at 30°C Temp Offset, Amps)	~1	~1	1.8	~4	3.3	3.55	~2

© Copyright 2018 Ardent Concepts, Inc. US Patent Numbers
6,787,709, 6,909,056, 7,126,062, 7,556,503. Other US and
Foreign Patents Apply and Pending
info@ardentconcepts.com
1-603-474-1760
Rev05242018

-
A
l
l

c
o
n
t
a
c
t
s

i
n
s
u
l
a
t
o
r
s

a
r
e

m
a
c
h
i
n
a
b
l
e
,

c
a
p
a
b
l
e

o
f

w
i
t
h
s
t
a
n
d
i
n
g

1

5Gs; 10-
2000 Hz
Vibration
Dielec
tric
with no
Discontinuit
y greater
than 1
microsecon
d, 1000Gs
6ms Shock
with no
discontinuit
y
Stren
gth of
greater
than 1
microsecon
d, and 96
hours at
160C.
Insula
tor
RC
Connect-R
Stamped
and formed
contacts
are stitched
an d
autoloade
d into final
asssmeblies
Mater
ials -Black
Ultem 1000
= 830 V/mil
-Vespe
l SP1
= 560 V/mil
-Torlon
4203 = 580
V/mil