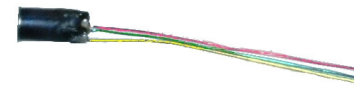
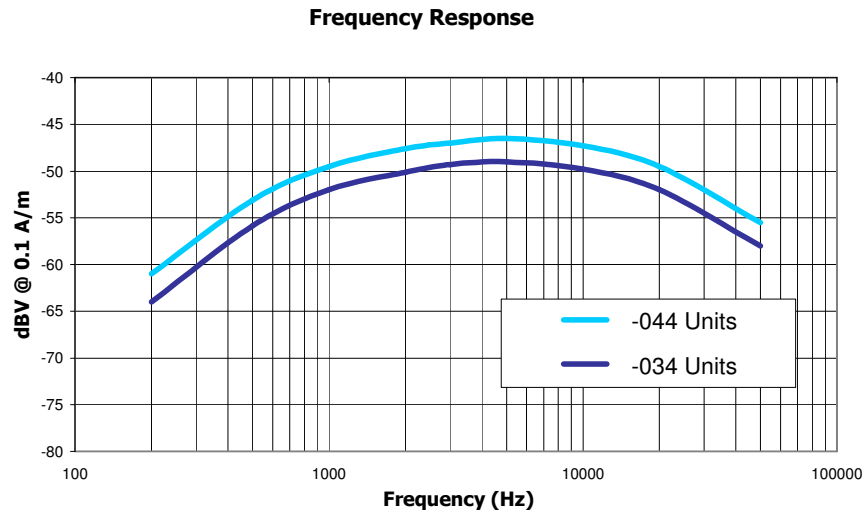


PC5 Series Amplified Audiocoils (telecoils) with EMI PROTECTION

Global Coils PC5 Series is the world's smallest amplified coil. PC5 Series Audiocoils feature a magnetic-field sensing coil with an integral low-power EMI-attenuating preamplifier. This design permits unit Sensitivity of 20-25 dB greater than passive coils of similar size.

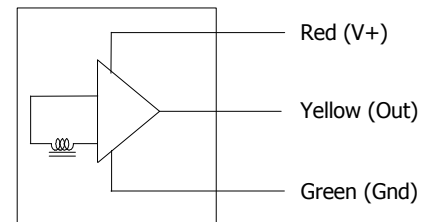
Best EMI performance: Analysis of test data have shown that the Global Coils PC5 coil has EMI immunity per ANSI C63.19 of **Category U4** for both E- and H-fields throughout low and high RF bands currently used for cellular communications. This represents improvement of up to 40dB over our already-favored PC3 versions.



PC5 Amplified Coil

ABSOLUTE MAXIMUM RATINGS

	Min	Max
Supply Voltage (V DC)	0.9	5.0
Operating Temp. (°C)	-10	50
Storage Temp. (°C)	-20	70



NOMINAL SENSITIVITY

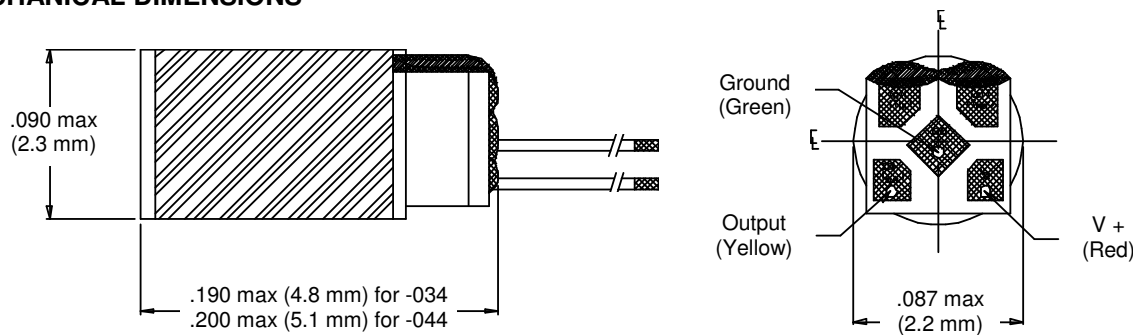
Model #	Color Dot	1 kHz Open Circuit Sensitivity (@ 0.1 A/m)
PC5-xx-034	Yellow	-52 dB
PC5-xx-044	Red	-49.5 dB

ELECTRICAL CHARACTERISTICS

Parameter	Model – Device	Min.	Typ.	Max.	Units	
Supply Current	All Models	-	65	100	microAmps	
Magnetic Sensitivity (Open Circuit, No Load)	For -034 Units	@200 Hz	-68	-64	-60	dBV (re: 1 v @0.1 A/m)
		@1 kHz	-55	-52	-50	
		@5 kHz	-52	-49	-47	
	For -044 Units	@200 Hz	-65	-61	-57	
		@1 kHz	-52.5	-49.5	-47.5	
		@5 kHz	-49.5	-46.5	-44	
Low-End 3dB Cut-Off Freq.	All Models	-	1100	-	Hz	
High-End 3dB Cut-Off Freq.	All Models	16	20	24	kHz	
Equivalent Input Noise	All Models	-	25	30	dB MFL <small>0dB MFL equiv. to 0dB SPL</small>	
Output Voltage DC	All Models	325	570	800	mV DC	
Output Impedance (R_0 @ $f = 1$ kHz)	All Models	3600	4000	4800	Ohms	
Output Voltage Swing (Peak)	All Models	±40	-	-	mV	
Output Current Drive (Peak)	All Models	± 9	± 30	-	microAmps	
Power Supply Rejection	All Models	32	50	-	dB	

Standard Operating Conditions: $V_+ = 1.30$ VDC; $H = 0.1$ A/m; 25° C.

MECHANICAL DIMENSIONS



SPECIAL OPTIONS

Leads - Standard leads are 2.0" (50mm) nom. length 36 AWG copper leads, solderable insulation and tinned. Other leads available as options.

Coatings – The PC5 model is available with a **rugged epoxy coating** as the standard configuration. Please contact a Global Coils Sales Office for details.

To provide the best products, Global Coils reserves the right to change materials, processes and specifications, without notice.