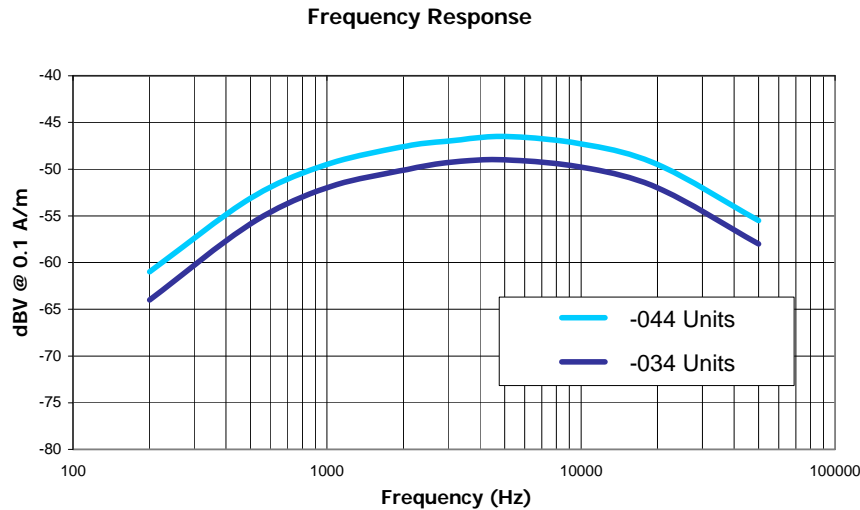


PC5 Series Amplified Audiocoils (telecoils) with EMI PROTECTION

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.

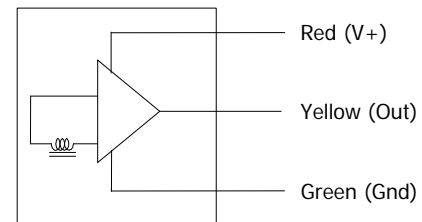
Best EMI performance: Analysis of test data have shown that the Global Coils PC5 coil has EMI immunity per ANSI C63.19 of **Category U4** for both E- and H-fields throughout low and high RF bands currently used for cellular communications. This represents improvement of up to 40dB over our already-favored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

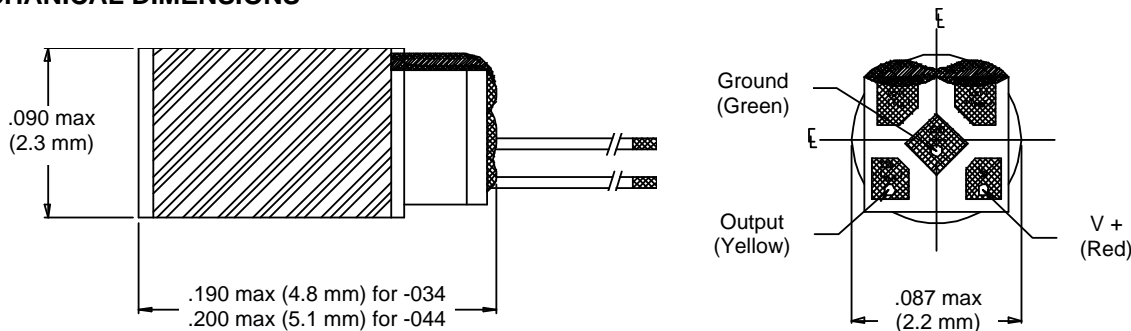
Model #	Color Dot	1 kHz Open Circuit Sensitivity (@ 0.1 A/m)
PC5-xx-034	Yellow	-52 dB
PC5-xx-044	Red	-49.5 dB

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	-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.

PC5 amplifier is discontinued. Limited quantity production of PC5 telecoils possible upon special request.