

# HANA - Umami Red, ML, SL, EL Comparison Chart

		Umami Red (UR)	ML	SL	EL
(1)	Body	Duralumin (A7075), Ebony Wood	Delrin (Polyoxymethylene)	ABS	ABS
(2)	Finish	Gloss Urushi Lacquer/Red	Satin Finish	Painted	Painted
(3)	Cantilever	Boron	Aluminum	Aluminum	Aluminum
(4)	Stylus	Microline Nude Diamond	Microline Nude Diamond	Shibata Nude Diamond	Synthetic Elliptical
(5)	Armature Material	Permalloy	Permalloy	Permalloy	Permalloy
(6)	Armature Shape	Square	Cross	Cross	Cross
(7)	Parts Material	Pure Iron	Pure Iron	Pure Iron	Pure Iron
(8)	Magnet	Samarium Cobalt	Alnico	Alnico	Alnico
(9)	Terminal Plate	PEEK (Polyether Ether Ketone)	ABS	ABS	ABS
(10)	Terminal Pin	24K Gold Plated	Gold Plated	Gold Plated	Gold Plated
(11)	Coil Impedance	6Ω/1KHz	8Ω/1KHz	30Ω/1KHz	30Ω/1KHz
(12)	Output	0.4mV/1KHz	0.4mV/1KHz	0.5mV/1KHz	0.5mV/1KHz
(13)	Coil Wire Material	High Purity Copper	High Purity Copper	4N Copper	4N Copper
(14)	Terminating Impedance	> 60Ω	> 100Ω	> 400Ω	> 400Ω
(15)	Cryo-genic	Yes	Yes	None	None
(16)	Frequency Response	10-50,000Hz	12-45,000Hz	15-32,000Hz	15-25,000Hz
(17)	Output Balance	0.5dB/1KHz	<1dB/1KHz	<1.5dB/1KHz	<2dB/1KHz
(18)	Channel Separation	>30dB/1KHz	30dB/1KHz	28dB/1KHz	25dB/1KHz
(19)	Tracking Force Weight	2g	2g	2g	2g
(20)	Trackability	70µm/2g	70µm/2g	70µm/2g	70µm/2g
(21)	Dynamic Compliance	10 x 10 <sup>(-6)</sup> cm/dyne (100Hz)	10 x 10 <sup>(-6)</sup> cm/dyne (100Hz)	10 x 10 <sup>(-6)</sup> cm/dyne (100Hz)	10 x 10 <sup>(-6)</sup> cm/dyne (100Hz)
(22)	estimated	16 x 10 <sup>(-6)</sup> cm/dyne (10Hz)	16 x 10 <sup>(-6)</sup> cm/dyne (10Hz)	16 x 10 <sup>(-6)</sup> cm/dyne (10Hz)	16 x 10 <sup>(-6)</sup> cm/dyne (10Hz)
(23)	Cartridge Weight	10.5g	9.5g	5g	5g